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Communications Distributed Applications and Interoperable Systems

Building Scalable Apps with Redis and Node.js

2014-09-25

if the phrase scalability sounds alien to you then this is an ideal book for you you will not need much node js experience as each framework is demonstrated in a way that requires no previous knowledge of the framework you will be building scalable node js applications in no time knowledge of javascript is required

Dart: Scalable Application Development

2017-06-09

master the art of designing web client and server with google s bold and productive language dart about this book create robust applications with unit tests documentation and diagnostic logging master the core dart language type system and key development tools connect to existing web services process json and create your own framework for the data display use mixins reflections annotations and other metadata programming techniques to create powerful app who this book is for if you are familiar with web development and are looking to learn or even just evaluate dart as a multipurpose language this learning path is for you no familiarity with the dart language is assumed for beginners it will serve as a guide to rapidly accelerate from a novice level to the master level for intermediate to advanced developers it will quickly fill in the gaps on dart and can explore a range of application types and powerful packages that are demonstrated in a practical manner what you will learn handle form data and encryption set up your dart environment to achieve the highest productivity run and debug the dart server and web applications and compile them in javascript work with postgresql an industry standard relational database system create robust applications with unit tests documentation and diagnostic logging develop command line applications and explore the key data structures and libraries detect and use html5 features that will help you deliver rich cross platform content demonstrate the power of polymer web components for binding data and structuring your web pages in detail designed to create next generation apps google s dart offers a much more robust framework and also supersedes javascript in several aspects familiar yet innovative compact yet scalable it blows away the accumulated javascript legacy limitations dart was designed for great tool ability and developer productivity allowing you to create better application faster than before google chose it for their billion dollar advertising business and you have its power for your projects too the first module will introduce you the dart language starting from its conception to its current form and where it headed is through engaging substantial practical projects you will be taken through building typical applications and exploring the exciting new technologies of html5 the second module will show you how to add internationalization support to your web applications and how i18n and i10n access can be embedded into your code to design applications that can be localized easily you will be shown how to organize client to server communication and how different html5 features can be used in dart finally this module will show you how you can store data locally break the storage limit and prevent security issues in your web application the third module is a pragmatic guide that will increase your expertise in writing all kinds of applications including web apps scripts and server side apps it provides rich insights on how to extend your dart programming skills altogether this course provides you the power to create powerful applications with dart without worrying about your knowledge leading to you having to make compromises to the end product this learning path has been curated from three packt products dart by example by davy mitchell mastering dart by sergey akopkokhyants dart cookbook by ivo balbaert style and approach this is an enticing learning path that starts from the very basics to gradually pick up pace as the story unfolds each topic is explained with the help of recipes that solves a real world problem involving hands on work thus giving you a deep insight into the world of dart

Developing Scalable Series 40 Applications

2005

this guide introduces the java 2 micro edition j2me mobile information device profile midp and explains how to develop multimedia messaging service mms and wireless application protocol wap based thin client applications for mobile nokia devices the authors discuss the bluetooth api optimization techniques end to end design patterns and scalability best practices and provide an

example photo viewer application action game and networked mobile web log annotation 2004 book news inc portland or

booknews.com

Web Development with Go

2015-12-30

take a deep dive into web development using the go programming language to build web apps and restful services to create reliable and efficient software development with go provides go language fundamentals and then moves on to advanced web development concepts and successful deployment of go web apps to the cloud development with go will teach you how to develop scalable real world web apps restful services and backend systems with go the book starts off by covering go programming language fundamentals as a prerequisite for web development after a thorough understanding of the basics the book delves into web development using the built in package net with each chapter you ll be introduced to new concepts for gradually building a real world web system the book further shows you how to integrate go with other technologies for example it provides an overview of using mongodb as a means of persistent storage and provides an end to end rest api sample as well the book then moves on to demonstrate how to deploy web apps to the cloud using the google cloud platform development with go provides fundamentals for building real world web apps in go thorough coverage of prerequisites and practical code examples demo web apps for attaining a deeper understanding of web development a reference rest api app which can be used to build scalable real world backend services in go a thorough demonstration of deploying web apps to the cloud using the google cloud platform go is a high performance language while providing greater level of developer productivity therefore development with go equips you with the necessary skills and knowledge required for effectively building robust and efficient web apps by leveraging the features of go

Transactional COM+

2001

tim ewald.com columnist for doc magazine explains how com works and then sets out specific rules intended as concrete guidelines to help developers build com systems

Building Intelligent Cloud Applications

2019-09-10

serverless computing is radically changing the way we build and deploy applications with cloud providers running servers and managing machine resources companies now can focus solely on the application s business logic and functionality this hands on book shows experienced programmers how to build and deploy scalable machine learning and deep learning models using serverless architectures with microsoft azure you ll learn step by step how to code machine learning into your projects using python and pre trained models that include tools such as image recognition speech recognition and classification you ll also examine issues around deployment and continuous delivery including scaling security and monitoring this book is divided into four parts cloud based development learn the basics of serverless computing with machine learning functions as a service faas and the use of apis adding intelligence create serverless applications using azure functions learn how to use pre built machine learning and deep learning models deployment and continuous delivery get up to speed with azure kubernetes service as well as azure security center and azure monitoring application examples deliver data at the edge build conversational interfaces and use convolutional neural networks for image classification

Rapid SaaS Application Development Using Salesforce

2023-12-27

learn how to rapidly build and document scalable salesforce applications key features practice the salesforce rapid application development lifecycle gain crucial application development skills and knowledge build a real world phonebook application to

master the development cycle description this book is a practical guide for building secure scalable and performant saas applications on top of the salesforce platform learn how to dissect a business problem and extract non communicated requirements gain practical knowledge on designing and documenting a salesforce application using the right mix of low code development tools such as flows validation rules and formula fields and full code using apex lightning components and off platform modules start with the fundamental concepts of the salesforce platform and its saas application development capabilities learn key building blocks like objects fields and security models explore powerful tools like app builder and flow builder and master the principles of the salesforce app development lifecycle the book will use real life business scenarios to practically teach you foundational information and skills that you can use to develop enterprise ready applications you will gain critical knowledge and skills to put you on track for your journey toward the prestigious salesforce certified technical architect credentials what you will learn develop scalable extendable and performant salesforce applications build a fully functional phonebook application and experience the entire development cycle design and document a salesforce application efficiently and effectively using standard artifacts test and release your salesforce application build a lively feedback loop with your application s end users who this book is for this book is for citizen developers business analysts saas application developers salesforce developers and architects and anyone interested in developing saas applications to solve enterprise business problems or to become salesforce certified technical architects table of contents 1 introduction to the salesforce platform 2 deep dive into key building blocks and tools 3 develop a sample salesforce application pbp phonebook 4 learn the salesforce application development lifecycle 5 understand the supporting tools and artifacts 6 create a sample application define and refine the requirements 7 create a sample application solve and build the application part 1 8 create a sample application solve and build the application part 2 9 create a sample application test and deploy 10 tips and tricks and the way forward

Building Scalable Web Sites

2006-05-16

building scaling and optimizing the next generation of applications

Building Google Cloud Platform Solutions

2019-03-26

build cost effective and robust cloud solutions with google cloud platform gcp using these simple and practical recipes key features explore the various service offerings of the gcp host a python application on google compute engine securely maintain application states with cloud storage datastore and bigtable book description gcp is a cloud computing platform with a wide range of products and services that enable you to build and deploy cloud hosted applications this learning path will guide you in using gcp and designing deploying and managing applications on google cloud you will get started by learning how to use app engine to access google s scalable hosting and build software that runs on this framework with the help of google compute engine you ll be able to host your workload on virtual machine instances the later chapters will help you to explore ways to implement authentication and security cloud apis and command line and deployment management as you hone your skills you ll understand how to integrate your new applications with various data solutions on gcp including cloud sql bigtable and cloud storage following this the book will teach you how to streamline your workflow with tools including source repositories container builder and stackdriver you ll also understand how to deploy and debug services with intellij implement continuous delivery pipelines and configure robust monitoring and alerts for your production systems by the end of this learning path you ll be well versed with gcp s development tools and be able to develop deploy and manage highly scalable and reliable applications this learning path includes content from the following packt products google cloud platform for developers ted hunter and steven porter google cloud platform cookbook by legorie rajan ps what you will learn host an application using google cloud functions migrate a mysql database to cloud spanner configure a network for a highly available application on gcp learn simple image processing using storage and cloud functions automate security checks using policy scanner deploy and run services on app engine and container engine minimize downtime and mitigate issues with stackdriver monitoring and debugger integrate with big data solutions including bigquery dataflow and pub sub who this book is for this learning path is for it professionals engineers and developers who want to

implement google cloud in their organizations administrators and architects planning to make their organization more efficient with google cloud will also find this learning path useful basic understanding of gcp and its services is a must

Full Stack Web Development with Backbone.js

2014-06-10

learn how to build a full stack application with backbone js by taking advantage of javascript modules workflow automation and backbone s interface building blocks with this practical guide author patrick mulder takes experienced backend developers and javascript programmers through the steps necessary to create a fully functional single page application backbone s rich ecosystem of plugins makes applications easier to design and scale but knowing which tools to use for your project can be tricky how do you combine views and the data layer with backbone or serve and deploy javascript assets you ll not only learn the answers to these and many other questions you ll also discover backbone s vast number of use cases get started quickly by using a backbone js and browserify track state and organize data with backbone models and collections capture events from users by using views and manipulating the dom combine backbone views with advanced html templates use backbone to browse remote data sources from an api authenticate and authorize client side interactions build a backend api with node js and restify set up workflow automation with bower grunt yeoman and requirejs

Google Cloud Platform for Developers

2018-07-30

develop deploy and scale your applications with google cloud platform key features create and deploy your applications on google cloud platform store and manage source code and debug cloud hosted apps with plugins and ides streamline developer workflows with tools for alerting and managing deployments book description google cloud platform gcp provides autoscaling compute power and distributed in memory cache task queues and datastores to write build and deploy cloud hosted applications with google cloud platform for developers you will be able to develop and deploy scalable applications from scratch and make them globally available in almost any language this book will guide you in designing deploying and managing applications running on google cloud you ll start with app engine and move on to work with container engine compute engine and cloud functions you ll learn how to integrate your new applications with the various data solutions on gcp including cloud sql bigtable and cloud storage this book will teach you how to streamline your workflow with tools such as source repositories container builder and stackdriver along the way you ll see how to deploy and debug services with intellij implement continuous delivery pipelines and configure robust monitoring and alerting for your production systems by the end of this book you ll be well versed with all the development tools of google cloud platform and you ll develop deploy and manage highly scalable and reliable applications what you will learn understand the various service offerings on gcp deploy and run services on managed platforms such as app engine and container engine securely maintain application states with cloud storage datastore and bigtable leverage stackdriver monitoring and debugging to minimize downtime and mitigate issues without impacting users design and implement complex software solutions utilizing google cloud integrate with best in class big data solutions such as bigquery dataflow and pub sub who this book is for google cloud platform for developers is for application developers this book will enable you to fully leverage the power of google cloud platform to build resilient and intelligent software solutions

Building Scalable PHP Web Applications Using the Cloud

2019-11-27

eliminate the guesswork involved in writing and deploying a cloud application this step by step guide uses php to minimize the complexity of the code and setup but the tools and techniques can be applied on any platform using any language everything that you need to jumpstart your application on the cloud is right here clear diagrams step by step configuration information and complete code listings tell you everything you need to get off the ground and start developing your cloud application today this book introduces several cloud architectures and technologies that will help you accelerate your application in the cloud chapters

cover load balanced clusters database replication caching configuration content delivery networks infinite scale file storage and cloud system administration cloud computing has dramatically changed the landscape of web hosting instead of spending weeks negotiating contracts for servers new servers can be deployed with the push of a button and your application can be resized almost instantly to meet today's needs no matter what size of web application you are developing you can benefit from modern cloud servers and this is the guide to tell you how what you'll learn use the cloud and its various platforms with docker management tools build a simple php based scalable web application create a basic cloud cluster work with amazon and google cloud platform in your php web application development who this book is for developers who have some prior programming experience including php and who are new to building applications

Hands-On Full-Stack Web Development with GraphQL and React

2019-01-31

unearth the power of graphql react apollo node and express to build a scalable production ready application key features build full stack applications with modern apis using graphql and apollo integrate apollo into react and build frontend components using graphql implement a self updating notification pop up with a unique graphql feature called subscriptions book description react one of the most widely used javascript frameworks allows developers to build fast and scalable front end applications for any use case graphql is the modern way of querying an api it represents an alternative to rest and is the next evolution in web development combining these two revolutionary technologies will give you a future proof and scalable stack you can start building your business around this book will guide you in implementing applications by using react apollo node js and sql we'll focus on solving complex problems with graphql such as abstracting multi table database architectures and handling image uploads our client and server will be powered by apollo finally we will go ahead and build a complete graphbook while building the app we'll cover the tricky parts of connecting react to the back end and maintaining and synchronizing state we'll learn all about querying data and authenticating users we'll write test cases to verify the front end and back end functionality for our application and cover deployment by the end of the book you will be proficient in using graphql and react for your full stack development requirements what you will learn resolve data from multi table database and system architectures build a graphql api by implementing models and schemas with apollo and sequelize set up an apollo client and build front end components using react use mocha to test your full stack application write complex react components and share data across them deploy your application using docker who this book is for the book is for web developers who want to enhance their skills and build complete full stack applications using industry standards familiarity with javascript react and graphql is expected to get the most from this book

Beginning API Development with Node.js

2018-07-24

using the same framework to build both server and client side applications saves you time and money this book teaches you how you can use javascript and node js to build highly scalable apis that work well with lightweight cross platform client applications it begins with the basics of node js in the context of backend development and

Modern C++: Efficient and Scalable Application Development

2018-12-21

create apps in c and leverage its latest features using modern programming techniques key features develop strong c skills to build a variety of applications explore features of c 17 such as containers algorithms and threads grasp the standard support for threading and concurrency and use them in basic daily tasks book description c is one of the most widely used programming languages it is fast flexible and used to solve many programming problems this learning path gives you an in depth and hands on experience of working with c using the latest recipes and understanding most recent developments you will explore c programming constructs by learning about language structures functions and classes which will help you identify the execution flow through code you will also understand the importance of the c standard library as well as memory allocation for writing better

and faster programs modern c efficient and scalable application development deals with the challenges faced with advanced c programming you will work through advanced topics such as multithreading networking concurrency lambda expressions and many more recipes by the end of this learning path you will have all the skills to become a master c programmer this learning path includes content from the following packt products beginning c programming by richard grimes modern c programming cookbook by marius bancila the modern c challenge by marius bancila what you will learn become familiar with the structure of c projects identify the main structures in the language functions and classes learn to debug your programs leverage c features to obtain increased robustness and performance explore functions and callable objects with a focus on modern features serialize and deserialize json and xml data create client server applications that communicate over tcp ip use design patterns to solve real world problems who this book is for this learning path is designed for developers who want to gain a solid foundation in c the desire to learn how to code in c is all you need to get started with this learning path

Mastering Node.js

2017-12-29

node js with its strong features and ability to write server as well as client side code with javascript has become a popular choice amongst developers for building powerful web applications this book is a deep dive into showing facets of node which are helpful for creating highly concurrent and scalable real time applications

Practical Node.js

2014-07-17

practical node js is your step by step guide to learning how to build a wide range of scalable real world web applications using a professional development toolkit node js is an innovative and highly efficient platform for creating web services but node js doesn't live in a vacuum in a modern web development many different components need to be put together routing database driver orm session management oauth html template engine css compiler and many more if you already know the basics of node js now is the time to discover how to bring it to production level by leveraging its vast ecosystem of packages as a web developer you'll work with a varied collection of standards and frameworks practical node js shows you how all those pieces fit together practical node js takes you from installing all the necessary modules to writing full stack web applications by harnessing the power of the express js and hapi frameworks the mongodb database with mongoskin and mongoose jade and handlebars template engines stylus and less css languages oauth and everyauth libraries and the socket io and derby libraries and everything in between the book also covers how to deploy to heroku and aws daemonize apps and write rest apis you'll build full stack real world node js apps from scratch and also discover how to write your own node js modules and publish them on npm you already know what node js is now learn what you can do with it and how far you can take it

Hands-On Serverless Applications with Kotlin

2018-09-29

choose the right architecture and design it using design patterns to create a serverless application that cuts costs and is easily scalable key features design enterprise ready serverless applications that effortlessly meet your customers requirements effectively deploy manage monitor and orchestrate serverless applications using aws use cloud9 to provision a secured development environment in the cloud book description serverless is a cloud computing execution model where the cloud provider dynamically manages the allocation and provisioning of servers many companies have started using serverless architectures to cut costs and improve scalability hands on serverless applications with kotlin is your one stop guide to designing serverless architectures for your applications with aws and kotlin to start with you'll explore the fundamentals of serverless architecture and how aws lambda functions work you will then learn to design build secure and deploy your application to production in addition to these activities you'll understand how to implement non functional requirements such as auditing and logging moving on you'll discover how to scale up and orchestrate serverless applications using an open source framework and handle distributed serverless systems in

production by the end of the book you'll have gained the knowledge needed to build scalable and cost efficient kotlin applications with a serverless framework what you will learn design a serverless architecture use aws lambda to contain your serverless api explore the various ways to keep serverless apps safe and secure understand how a serverless api allows you to use huge infrastructure and cut costs discover how to handle distributed systems in kotlin design the data flow between cloud services and custom business logic secure your kotlin aws serverless application master kotlin design patterns for serverless applications who this book is for hands on serverless applications with kotlin is for you if you are a kotlin developer who wants to learn about serverless architectures it is assumed that you have some knowledge of kotlin programming and aws

Modern API Development with Spring and Spring Boot

2021-06-25

a developer's guide to designing testing and securing production ready modern apis with the help of practical ideas to improve your application's functionality key features build resilient software for your enterprises and customers by understanding the complete api development life cycle overcome the challenges of traditional api design by adapting to a new and evolving culture of modern api development use spring and spring boot to develop future proof scalable apis book description the philosophy of api development has evolved over the years to serve the modern needs of enterprise architecture and developers need to know how to adapt to these modern api design principles apps are now developed with apis that enable ease of integration for the cloud environment and distributed systems with this spring book you'll discover various kinds of production ready api implementation using rest apis and explore async using the reactive paradigm grpc and graphql you'll learn how to design evolving rest based apis supported by hateoas and etags and develop reactive async non blocking apis after that you'll see how to secure rest apis using spring security and find out how the apis that you develop are consumed by the app's ui the book then takes you through the process of testing deploying logging and monitoring your apis you'll also explore api development using grpc and graphql and design modern scalable architecture with microservices the book helps you gain practical knowledge of modern api implementation using a sample e-commerce app by the end of this spring book you'll be able to develop test and deploy highly scalable maintainable and developer friendly apis to help your customers to transform their business what you will learn understand restful api development its design paradigm and its best practices become well versed in spring's core components for implementing restful web services implement reactive apis and explore async api development apply spring security for authentication using jwt and authorization of requests develop a react based ui to consume apis implement grpc inter service communication design graphql based apis by understanding workflows and tooling gain insights into how you can secure test monitor and deploy your apis who this book is for this book is for inexperienced java programmers comp science or coding boot camp graduates who have knowledge of basic programming constructs data structures and algorithms in java but lack the practical web development skills necessary to start working as a developer professionals who've recently joined a startup or a company and are tasked with creating real world web apis and services will also find this book helpful this book is also a good resource for java developers who are looking for a career move into web development to get started with the basics of web service development

Architecting Data Intensive Applications

2018-07-31

architect and design data intensive applications and in the process learn how to collect process store govern and expose data for a variety of use cases key features integrate the data intensive approach into your application architecture create a robust application layout with effective messaging and data querying architecture enable smooth data flow and make the data of your application intensive and fast book description are you an architect or a developer who looks at your own applications gingerly while browsing through facebook and applauding it silently for its data intensive yet fluent and efficient behaviour this book is your gateway to build smart data intensive systems by incorporating the core data intensive architectural principles patterns and techniques directly into your application architecture this book starts by taking you through the primary design challenges involved with architecting data intensive applications you will learn how to implement data curation and data dissemination depending on

the volume of your data you will then implement your application architecture one step at a time you will get to grips with implementing the correct message delivery protocols and creating a data layer that doesn't fail when running high traffic this book will show you how you can divide your application into layers each of which adheres to the single responsibility principle by the end of this book you will learn to streamline your thoughts and make the right choice in terms of technologies and architectural principles based on the problem at hand what you will learn understand how to envision a data intensive system identify and compare the non functional requirements of a data collection component understand patterns involving data processing as well as technologies that help to speed up the development of data processing systems understand how to implement data governance policies at design time using various open source tools recognize the anti patterns to avoid while designing a data store for applications understand the different data dissemination technologies available to query the data in an efficient manner implement a simple data governance policy that can be extended using apache falcon who this book is for this book is for developers and data architects who have to code test deploy and or maintain large scale high data volume applications it is also useful for system architects who need to understand various non functional aspects revolving around data intensive systems

Scalable and Near-Optimal Design Space Exploration for Embedded Systems

2014-03-21

this book describes scalable and near optimal processor level design space exploration dse methodologies the authors present design methodologies for data storage and processing in real time cost sensitive data dominated embedded systems readers will be enabled to reduce time to market while satisfying system requirements for performance area and energy consumption thereby minimizing the overall cost of the final design

Building Scalable Applications with Erlang

2011-06-03

erlang is emerging as a leading language for concurrent programming in mission critical enterprise environments where applications must deliver exceptional reliability availability and scalability it's already used by organizations ranging from facebook to amazon and many others are adopting or considering it as a functional language however erlang is radically different from conventional object oriented languages like c and java this book quickly brings experienced object oriented programmers up to speed with both erlang and the principles of functional programming jerry jackson thoroughly explains erlang's key concepts principles and features bridging the conceptual gaps that often frustrate object developers next he shows how to use erlang to build massively scalable real world systems with up to nine nines availability that is up to 99.9999999 uptime coverage includes what erlang is and why it offers so much potential what it means to be concurrency oriented and how to design concurrency oriented applications how to use functional features pattern matching and erlang's standard libraries how to manage concurrency and mutable state and work with the mnesia database how to write distributed software with erlang how to use powerful additional capabilities built into erlang's open telecom platform otp how to interact with java c and other languages how to use erlang's bundled web server and debugger and much more

Modern C++

2018-12-19

create apps in c and leverage its latest features using modern programming techniques key features develop strong c skills to build a variety of applications explore features of c 17 such as containers algorithms and threads grasp the standard support for threading and concurrency and use them in basic daily tasks book description c is one of the most widely used programming languages it is fast flexible and used to solve many programming problems this learning path gives you an in depth and hands on experience of working with c using the latest recipes and understanding most recent developments you will explore c programming constructs by learning about language structures functions and classes which will help you identify the execution flow through code you will also understand the importance of the c standard library as well as memory allocation for writing better

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Instant RabbitMQ Messaging Application Development How-to

2013

filled with practical step by step instructions and clear explanations for the most important and useful tasks written in a practical concise style this book is complete with hands on examples and the right amount of theory to get you started developing messaging applications with rabbitmq although the examples in this book are written in node js a server side javascript platform for building fast scalable network applications no knowledge of rabbitmq or node js is required if you want to build scalable message based applications using rabbitmq then this book is for you

Web Application Development with Streamlit

2022-08-27

transition from a back end developer to a full stack developer with knowledge of all the dimensions of web application development namely front end back end and server side software this book provides a comprehensive overview of streamlit allowing developers and programmers of all backgrounds to get up to speed in as little time as possible streamlit is a pure python web framework that will bridge the skills gap and shorten development time from weeks to hours this book walks you through the complete cycle of web application development from an introductory to advanced level with accompanying source code and resources you will be exposed to developing basic intermediate and sophisticated user interfaces and subsequently you will be acquainted with data visualization database systems application security and cloud deployment in streamlit in a market with a surplus demand for full stack developers this skill set could not possibly come at a better time in one sentence streamlit is a means for the empowerment of developers everywhere and all stand to gain from it what you ll learn mutate big data in real time visualize big data interactively implement web application security and privacy protocols deploy streamlit web applications to the cloud using streamlit linux and windows servers who is this book for developers with solid programming experience wanting to learn streamlit back end developers looking to upskill and transition to become a full stack developers those who wish to learn and become more acquainted with data visualization database systems security and cloud deployment with steamlit

Oracle APEX 20 For Beginners

2020-07-07

this is my eleventh book on oracle application express apex written for the latest version just like my previous books that exposed the technology to thousands around the globe this book is also aimed at absolute beginners who wish to learn from self paced professional guidance and need a solid foundation in oracle apex the world of technology is changing very rapidly things that used to be done in months are now being done in days and even hours there are so many web development technologies out there and to pick the right one as a beginner is a very tedious task development comes with a huge set of rules and techniques every web developer should know about if you want your web applications to look and function as you wish them to you need to put on many hats to get familiar with web technologies that will help you achieve your goal we are building a world where any

business idea can be automated in minutes from web application development perspective you need a platform to rapidly respond to these ever changing demands this is where oracle apex fits in oracle apex is a low code application development platform and this is the most exciting feature of oracle apex that efficiently copes with the current trends low code app development enables people without technical backgrounds to develop innovative apps and can help speed time to develop it has the capability to make everyone a developer from software customization to complex apps low code is capable of equipping any employee with powerful tools for improved operational efficiency low code platforms enable agility and faster more accessible development cycles one benefit of low code app development is it allows non coders to prototype solutions quickly these solutions can be tested evaluated and refined without having to involve formal software development staff members as a low code web application development tool oracle apex helps you create complete applications visually with the help of drag and drop interface and wizards rather than writing thousands of lines of complex code and syntax this low code platform allows you to build complete applications with modern user interfaces integrations data and logic quickly and visually if you have strong intentions to become a dynamic web developer then you have landed on the right page this book will provide you with a solid foundation of oracle apex and will set a firm ground to develop robust application systems to fulfill the information requirements of your organization special offer for those who are new to sql or those who want to strengthen their sql knowledge i m providing my sql plsqli e book with this book for free

Vue.js 3 Design Patterns and Best Practices

2023-05-30

enhance your vue 3 development skills to build high performing single and progressive page applications with vite pinia and workers purchase of the print or kindle book includes a free pdf ebook key features learn software engineering best practices and design patterns and apply them effectively to your vue applications build both spas and pwases using workers and indexeddb develop test build and deploy your vue 3 applications to a real production server book description if you re familiar with the progressive vue framework for creating responsive user interfaces you ll be impressed with its latest iteration vue 3 which introduces new concepts and approaches design patterns that are uncommon in other libraries or frameworks by building on your foundational knowledge of vue 3 and software engineering principles this book will enable you to evaluate the trade offs of different approaches to building robust applications this book covers vue 3 from the basics including components and directives and progressively moves on to more advanced topics such as routing state management web workers and offline storage starting with a simple page you ll gradually build a fully functional multithreaded offline and installable progressive web application by the time you finish reading this vue book not only will you have learned how to build applications but you ll also understand how to solve common problems efficiently by applying existing design patterns with this knowledge you ll avoid reinventing the wheel for every project saving time and creating software that s adaptable to future changes what you will learn discover the full potential of the powerful and progressive vue 3 framework explore software principles and design patterns to build maintainable applications create an efficient development environment using vite and optimize your code and workflow identify and apply proven design patterns to solve common problems in your web application s architecture refactor your codebase to improve your application s organization scalability and maintainability follow best practices for your code organization architecture and user experience implementation who this book is for this book is for vue js developers who are passionate about framework design principles and seek to apply commonly found design patterns to their web development projects this book assumes prior knowledge of javascript and a basic understanding of vue js making it an ideal resource for developers looking to expand their existing skillset

Hands-on Application Development using Spring Boot

2021-10-30

a pragmatic guide for java developers to help build microservices and cloud apps using spring boot key features develops microservices from start to finish using the spring boot framework creates cloud native applications using spring boot s production ready features covers the api gateway unit testing cloud deployments and managing high traffic applications description spring is an excellent framework for developing both web and cloud native applications this book on application development using spring

boot simplifies the process of writing boilerplate code for complex software it allows developers to concentrate on the application's concept rather than on the internal java configuration this book will guide you on how to make the best use of the strength that spring boot provides you'll gain an understanding of how spring boot configuration works in conjunction with application development including auto configuration and overriding default configurations you will learn to develop scalable dependable microservices to accelerate the development lifecycle of a cloud based application each chapter will walk you through the features of spring boot as a software development framework such as performing create read update and delete crud operations on a database and securing web services with appropriate logging by the end of this book you will develop test and deploy applications ready for production and how to establish them as cloud based applications the readers will also gain the expertise of writing unit and integration test cases what you will learn get to know spring boot and all its capabilities build start to end production ready applications explore the api gateway and practice how to run request routing learn api doc tools like swagger and host your apps on cloud practice how to balance the application's load when the system is under high traffic learn to write unit tests and integration tests for bug free coding who this book is for this book is for java developers who want to quickly develop test and deploy production ready applications this book will also appeal to cloud native application developers and cloud engineers no prior spring boot knowledge is required as the basics are covered in the book table of contents 1 getting started with spring boot 2 developing your first spring boot application 3 spring boot starter dependencies and auto configuration 4 spring boot annotations 5 working with spring data jpa and caching 6 building restful microservices 7 securing a application 8 building resilient system 9 logging 10 working with the swagger api management tool 11 testing a spring boot application 12 deploying a spring boot application

Mastering Google App Engine

2015-10-08

build robust and highly scalable web applications with google app engine about this book get an in depth look at how google app engine works under the hood design and model your application around google's highly scalable distributed nosql datastore to unlock its full potential a comprehensive guide to ensure your mastery of google app engine who this book is for if you have been developing web applications in python or any other dynamic language but have always wondered how to write highly scalable web applications without getting into system administration and other plumbing then this is the book for you no experience in writing scalable applications is required what you will learn scale and develop your applications with google app engine's runtime environment get to grips with request handling mechanism and write request handlers deep dive into google's distributed nosql and highly scalable datastore and design your application around it implement powerful search with scalable datastore perform long running tasks in the background using task queues write compartmentalized apps using multi tenancy memcache and other google app engine runtime services handle web requests using the cgi wsgi and multi threaded configurations deploy tweak and manage apps in production on google app engine in detail developing web applications that serve millions of users is no easy task as it involves a number of configurations and administrative tasks for the underlying software and hardware stack this whole configuration requires not only expertise but also a fair amount of time as well time that could have been spent on actual application functionality google app engine allows you develop highly scalable web applications or backends for mobile applications without worrying about the system administration plumbing or hardware provisioning issues just focus writing on your business logic the meat of the application and let google's powerful infrastructure scale it to thousands of requests per second and millions of users without any effort on your part this book takes you from explaining how scalable applications work to designing and developing robust scalable web applications of your own utilizing services available on google app engine starting with a walkthrough of scalability is and how scalable web applications work this book introduces you to the environment under which your applications exist on google app engine next you will learn about google's datastore which is a massively scalable distributed nosql solution built on top of bigtable you will examine the bigtable concepts and operations in detail and reveal how it is used to build google datastore armed with this knowledge you will then advance towards how to best model your data and query that along with transactions to augment the powerful distributed dataset you will deep dive into search functionality offered on google app engine with the search and storage sorted out you will get a look into performing long running tasks in the background using google app engine task queues along with sending and receiving emails you will also examine the memcache

to boost web application performance image processing for common image manipulation tasks you will then explore uploading storing and serving large files using blobstore and cloud storage finally you will be presented with the deployment and monitoring of your applications in production along with a detailed look at dividing applications into different working modules style and approach this book is an in depth guide where you will examine the problems in the context of highly scalable web applications this book will take you through the libraries services and required configuration and finally puts everything together into a small web application that showcases all the capabilities of google app engine

Building Serverless Applications with Python

2018-04-20

building efficient python applications at minimal cost by adopting serverless architectures key features design and set up a data flow between cloud services and custom business logic make your applications efficient and reliable using serverless architecture build and deploy scalable serverless python apis book description serverless architectures allow you to build and run applications and services without having to manage the infrastructure many companies have adopted this architecture to save cost and improve scalability this book will help you design serverless architectures for your applications with aws and python the book is divided into three modules the first module explains the fundamentals of serverless architecture and how aws lambda functions work in the next module you will learn to build release and deploy your application to production you will also learn to log and test your application in the third module we will take you through advanced topics such as building a serverless api for your application you will also learn to troubleshoot and monitor your app and master aws lambda programming concepts with api references moving on you will also learn how to scale up serverless applications and handle distributed serverless systems in production by the end of the book you will be equipped with the knowledge required to build scalable and cost efficient python applications with a serverless framework what you will learn understand how aws lambda and microsoft azure functions work and use them to create an application explore various triggers and how to select them based on the problem statement build deployment packages for lambda functions master the finer details about building lambda functions and versioning log and monitor serverless applications learn about security in aws and lambda functions scale up serverless applications to handle huge workloads and serverless distributed systems in production understand sam model deployment in aws lambda who this book is for this book is for python developers who would like to learn about serverless architecture python programming knowledge is assumed

Full-Stack Web Development with GraphQL and React

2022-02-28

unleash the power of graphql react 17 node and express to build a scalable and production ready application from scratch to be deployed on aws key features build full stack applications with modern apis using graphql and react hooks integrate apollo into react and build frontend components using graphql implement a self updating notification pop up with a unique graphql feature called subscriptions book description react and graphql when combined provide you with a very dynamic efficient and stable tech stack to build web based applications graphql is a modern solution for querying an api that represents an alternative to rest and is the next evolution in web development this book guides you in creating a full stack web application from scratch using modern web technologies such as apollo express js node js and react first you ll start by configuring and setting up your development environment next the book demonstrates how to solve complex problems with graphql such as abstracting multi table database architectures and handling image uploads using sequelize you ll then build a complete graphbook from scratch while doing so you ll cover the tricky parts of connecting react to the backend and maintaining and synchronizing state in addition to this you ll also learn how to write reusable react components and use react hooks later chapters will guide you through querying data and authenticating users in order to enable user privacy finally you ll explore how to deploy your application on aws and ensure continuous deployment using docker and circleci by the end of this web development book you ll have learned how to build and deploy scalable full stack applications with ease using react and graphql what you will learn build a graphql api by implementing models and schemas with apollo and sequelize set up an apollo client and build frontend components using react write reusable

react components and use react hooks authenticate and query user data using graphql use mocha to write test cases for your full stack application deploy your application to aws using docker and circleci who this book is for this react graphql book is for web developers familiar with react and graphql who want to enhance their skills and build full stack applications using industry standards like react apollo node js and sql at scale while learning to solve complex problems with graphql

Android Development With Kotlin

101-01-01

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Full-Stack Development with Angular and GraphQL

2021-12

expert techniques for building fast servers and scalable real time network applications with minimal effort rewritten for node js 8 and node js 9 key features packed with practical examples and explanations mastering node js contains everything you need to take your applications to the next level unleash the full potential of node js 9 to build real time and scalable applications gain in depth knowledge of asynchronous programming event loops and parallel data processing explore node s innovative event non blocking design and build professional applications with the help of detailed examples book description node js a modern development environment that enables developers to write server and client side code with javascript thus becoming a popular choice among developers this book covers the features of node that are especially helpful to developers creating highly concurrent real time applications it takes you on a tour of node s innovative event non blocking design showing you how to build professional applications this edition has been updated to cover the latest features of node 9 and es6 all code examples and demo applications have been completely rewritten using the latest techniques introducing promises functional programming async await and other cutting edge patterns for writing javascript code learn how to use microservices to simplify the design and composition of distributed systems from building serverless cloud functions to native c plugins from chatbots to massively scalable sms driven applications you ll be prepared for building the next generation of distributed software by the end of this book you ll be building better node applications more quickly with less code and more power and know how to run them at scale in production environments what you will learn build an electron desktop app using node that manages a filesystem explore streams and understand how they apply to building networked services develop and deploy an sms driven customer service application use websockets for rapid bi directional communication construct serverless applications with amazon lambda test and debug with headless browsers cpu profiling mocha sinon and more scale applications vertically and horizontally across multiple cores and web services who this book is for this book is targeted at javascript developers who want to take an in depth look at the latest node js framework to create faster scalable real time backend applications basic javascript programming knowledge and also

some previous node js development experience are mandatory to get the best out of this book

Mastering Node.js

2017-12-29

bring the frontend and backend together with vue vuex and node js key features construct modern web applications with node 10 express js mongodb and vue leverage the latest web standards to increase code performance readability and cross compatibility harness the power of the javascript ecosystem to effectively run build and test your full stack applications book description isomorphic javascript was the buzzword of the year 2017 allowing developers to utilize a single language throughout their web development stack and build cost effective and scalable applications mevn is a one such modern web development stack consisting of web applications such as mongodb express js vue js and node js hands on full stack development with vue js 2 and node js leverages the harmony of these technologies to help you create full stack web applications starting with the core frameworks this example based guide explains all the key concepts of frameworks how to set them up properly and how to use popular modules to connect them together and make them work cohesively you will learn all this with the help of real world examples in addition to this you will be able to scaffold web application architecture add an authentication layer and develop the mvc structure to support the development of your application you ll explore how to create data models for your applications and then write rest apis by exposing your data model to your application solely orientated towards building a full end to end application using the mevn stack this book will help you understand how your application development grows what you will learn build an application with express js create schemas using mongoose develop a single page application using vue js and express js create restful apis using express js add test cases to improve the reliability of the application learn how to deploy apps on heroku using github add authorization using passports who this book is for if you are a web or a full stack javascript developer and have tried your hand at traditional stacks such as lamp mean or mern or wish to explore a new stack with modern web technologies then this book is for you prior knowledge of html css and javascript would be an added advantage

Full-Stack Web Development with Vue.Js and Node

2018-05-14

the developer s guide to the java server provides a comprehensive description of the java server and specific techniques for putting this technology to work the book describes the underlying servlet technology reviews java server features explores design options and demonstrates the development process book jacket title summary field provided by blackwell north america inc all rights reserved

The Developer's Guide to the Java Web Server

1999

a guide to building enterprise cloud ready full stack web applications using typescript vue js 3 and asp net core 5 for busy developers key features learn how to implement clean architecture in the latest asp net core 5 api develop vue js 3 single page applications spas using typescript or javascript programming and vuex state management secure test and deploy your full stack web application to azure cloud book description vue js 3 is faster and smaller than the previous version and typescript s full support out of the box makes it a more maintainable and easier to use version of vue js then there s asp net core 5 which is the fastest net web framework today together vue js for the frontend and asp net core 5 for the backend make a powerful combination this book follows a hands on approach to implementing practical methodologies for building robust applications using asp net core 5 and vue js 3 the topics here are not deep dive and the book is intended for busy net developers who have limited time and want a quick implementation of a clean architecture with popular libraries you ll start by setting up your web app s backend guided by clean architecture command query responsibility segregation cqrs mediator pattern and entity framework core 5 the book then shows you how to build the frontend application using best practices state management with vuex vuetify ui component libraries vuelidate for input validations lazy loading with vue router and jwt authentication later you ll focus on testing

and deployment all the tutorials in this book support windows 10 macos and linux users by the end of this book you ll be able to build an enterprise full stack web app use the most common npm packages for vue js and nuget packages for asp net core and deploy vue js and asp net core to azure app service using github actions what you will learn discover cqrs and mediator pattern in the asp net core 5 api use serilog mediatr fluentvalidation and redis in asp net explore common vue js packages such as vuelidate vuetify and vuex manage complex app states using the vuex state management library write integration tests in asp net core using xunit and fluentassertions deploy your app to microsoft azure using the new github actions for continuous integration and continuous deployment ci cd who this book is for this app development book is for net developers who want to get started with vue js and build full stack real world enterprise web applications developers looking to build a proof of concept application quickly and pragmatically using their existing knowledge of asp net core as well as developers who want to write readable and maintainable code using typescript and the c programming language will also find this book useful the book assumes intermediate level net knowledge along with an understanding of c programming javascript and ecmascript

Energy and Water Development Appropriations for 1999: Department of Energy, Environmental management and commercial waste management

1998

this book constitutes the proceedings of the 19th ifip international conference on distributed applications and interoperable systems dais 2019 held in kongens lyngby denmark in june 2019 as part of the 14th international federated conference on distributed computing techniques discotec 2019 the 9 full papers presented together with 2 short papers were carefully reviewed and selected from 28 submissions the papers addressed challenges in multiple application areas such as the internet of things cloud and edge computing and mobile systems some papers focused on middleware for managing concurrency and consistency in distributed systems including data replication and transactions

ASP. Net Core and Vue. Js

2021-06-16

High Performance Computing and Communications

1994

Distributed Applications and Interoperable Systems

2019-06-05

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