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Building Scalable Apps with Redis and Node.js

Develop customized, scalable web apps through the integration
of powerful Node.js frameworks

Joshua Johanan

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Building Scalable Apps With Redis And Node Js Johanan Joshua

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Building Scalable Apps with Redis and Node.js Joshua Johanan, 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 **Node.js By Example** Krasimir Tsonev, 2015-05-25 If you are a JavaScript developer with no experience with Node js or server side web development this book is for you It will lead you through creating a fairly complex social network You will learn how to work with a database and create real time communication channels

Socket.IO Cookbook Tyson Cadenhead, 2015-10-15 Over 40 recipes to help you create real time JavaScript applications using the robust Socket IO framework About This Book Create secure WebSocket connections and real time mobile applications using Socket IO Devise efficient messaging systems between the server side and the client side A step by step implementation guide to help you create elements of Socket IO application Who This Book Is For If you have some knowledge of JavaScript and Node js and want to create awe inspiring application experiences using real time communication then this book is for you Developers with knowledge of other scripting languages should also be able to easily follow along What You Will Learn Build rich and interactive real time dashboards using Socket IO to pipe in data as it becomes available Design chat and multiple person interfaces that leverage Socket IO for communication Segment conversations to rooms and namespaces so that every socket doesn't have to receive every message Secure your data by implementing various authentication techniques locking down the HTTP referrer and using secure WebSockets Load balance across multiple server side nodes and keep your WebSockets in sync using Redis RabbitMQ or Memcached Stream binary data such as audio and video in real time over a Socket IO connection Create real time experiences outside of the browser by integrating Socket IO with hybrid mobile applications In Detail Socket IO is a JavaScript library that provides you with the ability to implement real time analytics binary streaming instant messaging and document collaboration It has two parts a client side library that runs in the browser and a server side library for node js Socket IO is event driven and primarily uses the WebSocket protocol that allows us to emit data bi directionally from the server and the client Socket IO This book is a complete resource covering topics from WebSocket security to scaling the server side of a Socket IO application and everything in between This book will provide real world examples of how secure bi directional full duplex connections that can be created using Socket IO for different environments It will also explain how the connection vulnerabilities can be resolved for large numbers of users and huge amounts of data messages By the end of the book you will be a competent Socket IO developer With the help of the examples and real world solutions you will learn to create fast scalable and dynamic real time apps by creating efficient messaging systems between the server side and the client side using Socket IO Style and approach This book is written in a cookbook style format and provides practical immediately usable task based recipes that show you how to create the

elements of a Socket IO application *Web Developer's Reference Guide* Joshua Johanan,Talha Khan,Ricardo Zea,2016-03-28 A one stop guide to the essentials of web development including popular frameworks such as jQuery Bootstrap AngularJS and Node js About This Book Understand the essential elements of HTML CSS and JavaScript including how and when to use them Walk through three of the best and most popular web development frameworks jQuery Bootstrap and AngularJS References for any function you will need in your day to day web development Who This Book Is For This book is perfect for beginners but more advanced web developers will also benefit Laid out so you can refer to as much or as little as you need to with this book you can exhaustively explore essential concepts for modern web developers What You Will Learn Explore detailed explanations of all the major HTML elements and attributes illustrated with examples Take a deep dive into CSS properties and functions and master their usage Find clear concise descriptions of JavaScript syntax and expressions Recognize various JavaScript design patterns and learn the basics of JavaScript object orientated programming Implement the latest ECMAScript 6 for client side scripting in your web applications Discover new ways to develop your website s front end quickly and easily using Bootstrap Write JavaScript extensibly using jQuery JavaScript s feature rich library Delve into the key Node js modules used in JavaScript server side programming Access AngularJS s important modules controllers directives and services quickly In Detail This comprehensive reference guide takes you through each topic in web development and highlights the most popular and important elements of each area Starting with HTML you will learn key elements and attributes and how they relate to each other Next you will explore CSS pseudo classes and pseudo elements followed by CSS properties and functions This will introduce you to many powerful and new selectors You will then move on to JavaScript This section will not just introduce functions but will provide you with an entire reference for the language and paradigms You will discover more about three of the most popular frameworks today Bootstrap which builds on CSS jQuery which builds on JavaScript and AngularJS which also builds on JavaScript Finally you will take a walk through Node js which is a server side framework that allows you to write programs in JavaScript Style and approach This book is an easy to follow comprehensive reference guide Each topic function or element is listed methodically along with parameters return values and descriptions Examples are also included to help you put the concepts to use quickly in the real world

Learning Redis Vinoo Das,2015-06-26 This book will introduce Redis and help you understand its various facets Starting with an introduction to NoSQL you will learn how to install Redis and how to classify and work with data structures By working with real world scenarios pertaining to using Redis you will discover sharding and indexing techniques along with how to improve scalability and performance through persistent strategies and data migration techniques With the help of multiple examples you will learn to design web and business applications You will also learn how to configure Redis for setting up clusters and tuning it for performance At the end of this book you will find essential tips on backup and recovery strategies for the Redis environment Web Developers Reference Guide Joshua Johanan,Talha Khan,Ricardo

Zea,2016-03-21 A one stop guide to the essentials of web development including popular frameworks such as jQuery Bootstrap AngularJS and Node js About This Book Understand the essential elements of HTML CSS and JavaScript including how and when to use them Walk through three of the best and most popular web development frameworks jQuery Bootstrap and AngularJS References for any function you will need in your day to day web development Who This Book Is For This book is perfect for beginners but more advanced web developers will also benefit Laid out so you can refer to as much or as little as you need to with this book you can exhaustively explore essential concepts for modern web developers What You Will Learn Explore detailed explanations of all the major HTML elements and attributes illustrated with examples Take a deep dive into CSS properties and functions and master their usage Find clear concise descriptions of JavaScript syntax and expressions Recognize various JavaScript design patterns and learn the basics of JavaScript object orientated programming Implement the latest ECMAScript 6 for client side scripting in your web applications Discover new ways to develop your website s front end quickly and easily using Bootstrap Write JavaScript extensibly using jQuery JavaScript s feature rich library Delve into the key Node js modules used in JavaScript server side programming Access AngularJS s important modules controllers directives and services quickly In Detail This comprehensive reference guide takes you through each topic in web development and highlights the most popular and important elements of each area Starting with HTML you will learn key elements and attributes and how they relate to each other Next you will explore CSS pseudo classes and pseudo elements followed by CSS properties and functions This will introduce you to many powerful and new selectors You will then move on to JavaScript This section will not just introduce functions but will provide you with an entire reference for the language and paradigms You will discover more about three of the most popular frameworks today Bootstrap which builds on CSS jQuery which builds on JavaScript and AngularJS which also builds on JavaScript Finally you will take a walk through Node js which is a server side framework that allows you to write programs in JavaScript Style and approach This book is an easy to follow comprehensive reference guide Each topic function or element is listed methodically along with parameters return values and descriptions Examples are also included to help you put the concepts to use quickly in the real world

Building Scalable Web Apps with Node.js and Express: Design and Develop a Robust, Scalable, High-Performance Web Application Using Node.js, Express.js, TypeScript, and Redis Ravi Kumar,Yamini Panchal,2024-06-24 Easy API Design Using Express js and Node js TypeScript Key Features Step by step instructions using TypeScript for efficient backend development on Node js enhancing code quality and maintainability Practical insights using Redis to implement efficient API caching methods optimizing performance and scalability Provides practical examples of API testing using Mocha and Chai ensuring robustness and reliability of the developed APIs Book Description Embark on a journey to become an expert in backend web development with this essential guide using Node js v20 Express js Redis and TypeScript The book covers foundational to advanced topics through one comprehensive example a project management

system It ensures learning and application of skills in API caching with Redis API testing using Mocha and Chai and deployment on AWS This approach simplifies complex concepts and provides a practical learning trajectory With expert tips and best practices you ll create user friendly features like sign ups and project trackers Plus you ll learn how to make your apps faster with caching and add cool features like notifications Finally you ll ace testing and deploying your apps like an expert What you will learn Explore TypeScript s power and versatility for developing backend using Node and Express Learn effective strategies for planning and structuring your application to ensure scalability and maintainability Dive deep into building REST APIs for user management project handling and task tracking Explore the implementation of API caching to boost performance and efficiency Develop a notification module to enrich user interaction and experience within your application Master the art of thoroughly testing your APIs using industry standard tools and methodologies Acquire skills and best practices for deploying your application ensuring smooth operation in production environments

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Build Complex Express Sites with Redis and Socket.io Joshua Johanan, 2016

Unity is a cross platform exciting and popular engine in the game industry This video course shows you how to use Node js to build websites and focuses primarily on Express as the framework that the website will be built in In addition to Express we cover the use of Redis and Socket io to make more robust and dynamic sites Many courses only focus on one of these but this course covers all of them By the end of this course you will be able to build applications using Express Redis and Socket io Express helps by making full featured web applications easy if you know how Redis opens doors by making data quick and easy to fetch Many sites have used Redis to make difficult data problems easy Lastly Socket io makes two way communication between the browser and web application easy If you have ever needed to build something that was real time then Socket io is what you want to use

Resource description page

Full-Stack React, TypeScript, and Node David Choi, 2020-12-18

Discover the current landscape of full stack development and how to leverage modern web technologies for building production ready React js applications to deploy on AWS

Key Features

- Understand the architecture of React and single page applications
- Build a modern Web API for your SPA using Node js Express and GraphQL
- Gain a clear and practical understanding of how to build a complete full stack application

Book Description

React sets the standard for building high performance client side web apps Node js is a scalable application server that is used in thousands of websites while GraphQL is becoming the standard way for large websites to provide data and services to their users Together these technologies when reinforced with the capabilities of TypeScript provide a cutting edge stack for complete web application development This book takes a hands on approach to implementing modern web technologies and the associated methodologies for building full stack apps You ll begin by gaining a strong understanding of TypeScript and how to use it to

build high quality web apps The chapters that follow delve into client side development with React using the new Hooks API and Redux Next you ll get to grips with server side development with Express including authentication with Redis based sessions and accessing databases with TypeORM The book will then show you how to use Apollo GraphQL to build web services for your full stack app Later you ll learn how to build GraphQL schemas and integrate them with React using Hooks Finally you ll focus on how to deploy your application onto an NGINX server using the AWS cloud By the end of this book you ll be able to build and deploy complete high performance web applications using React Node and GraphQL What you will learnDiscover TypeScript s most important features and how they can be used to improve code quality and maintainabilityUnderstand what React Hooks are and how to build React apps using themImplement state management for your React app using ReduxSet up an Express project with TypeScript and GraphQL from scratchBuild a fully functional online forum app using React and GraphQLAdd authentication to your web app using RedisSave and retrieve data from a Postgres database using TypeORMConfigure NGINX on the AWS cloud to deploy and serve your appsWho this book is for The book is for web developers who want to go beyond front end web development and enter the world of full stack web development by learning about modern web technologies and how they come together A good understanding of JavaScript programming is required before getting started with this web development book

The Complete Guide to Node Joshua Johanan,2016 Learn everything you need to about Node js About This Video Understand how modules work in Node js Learn asynchronous programming Learn Node js paradigms In Detail We will be covering how to use Node js to build websites This course will focus primarily on Express as the framework that the website will be built in In addition to Express we will cover using Redis and Socket io to make more robust and dynamic sites Many courses only focus on one of these but this course will cover all of them By the end of this course the reader will be able to build applications using Express Redis and Socket io Express helps by making full featured web applications easy if you know how Redis opens doors by making data quick and easy to fetch Many sites have used Redis to make difficult data problems easy Lastly Socket io makes two way communication between the browser and web application easy If you have every needed to build something that was real time than Socket io is what you want to use

Building Real-Time Applications with Node.js Nolan Brackenridge,Talon Fitzgerald,2025-06-14 Create High Performance Real Time Web Apps with Node js Looking to build real time applications that can scale seamlessly Building Real Time Applications with Node js is your go to guide for creating fast scalable web apps that update in real time all with the power of Node js Whether you re a developer seeking to understand Node js in depth or looking to enhance your real time app development skills this book takes you through the entire process from basic concepts to advanced techniques With step by step instructions and practical projects you ll master real time web technologies like WebSockets Socket io and REST APIs to handle thousands of simultaneous users with ease What You ll Learn Inside Building Real Time Applications Understand the core concepts behind real time apps and how to use Node js to create them Using

WebSockets and Socket.io Set up WebSockets to allow real time bidirectional communication between the client and server
Creating Scalable Architectures Design applications that can scale effectively to support a large number of concurrent users
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LEARN NODE.JS Diego Rodrigues, 2024-11-02 This book is the ultimate guide for those who want to master Node.js with a focus on modern secure and scalable backend development
From environment setup to building complete APIs you will learn to use JavaScript on the server with real efficiency applying professional practices at every stage of the process
With a didactic approach and practical focus the content covers asynchronous events Express.js authentication WebSockets MongoDB automated testing microservices security deployment and more
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Production deployment with Heroku Docker and DigitalOcean Microservices architecture queues with Bull caching with Redis Automated testing security optimization and real performance
By the end you will be ready to build robust and scalable backend applications with JavaScript integrating data APIs and services with fluency security and professional structure
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[Real-World Next.js](#) Michele Riva, 2022-02-28 Learn how to use Next.js for building web apps without compromising performance user experience and developer happiness
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Mastering Node.js Sandro Pasquali, Kevin Faaborg, 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](#) Azat Mardan, 2018-11-03 Learn how to build a wide range of scalable real world web applications using a professional development toolkit 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 With this book you ll work with a varied collection of standards and frameworks and see how all those pieces fit together Practical Node js takes you from installing all the necessary modules to writing full stack web applications You ll harness the power of the Express js and Hapi frameworks the MongoDB database with Mongoskin and Mongoose You ll also work with Pug and Handlebars template engines Stylus and LESS CSS lanaguages OAuth and Everyauth libraries and the Socket IO and Derby libraries and everything in between This exciting second edition is fully updated for ES6 ES2015 and 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 Fully supported by a continuously updated source code repository on GitHub and with full color code examples learn what you can do with Node js and how far you can take it What You ll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha Expect and TravisCI Implement a third party OAuth strategy with Everyauth Web developers who have some familiarity with the basics of Node js and want to learn how to use it to build apps in a professional environment

AdonisJS Unlocked: Practical Patterns for Building Scalable Node.js Web Applications William E Clark, 2025-11-19 AdonisJS Unlocked Practical Patterns for Building Scalable Node js Web Applications is a hands

on expertly crafted companion that guides developers from first principles to production ready architectures Beginning with the framework s core philosophy it clarifies AdonisJS s architecture Inversion of Control IoC container and environment management then walks through the request lifecycle HTTP context and robust error handling so you build with confidence and clarity The guide then dives into advanced patterns and real world challenges deep examinations of routing internals middleware orchestration and validation a comprehensive Lucid ORM masterclass covering model relationships migrations transactions and integration with non relational data sources and a pragmatic security playbook addressing authentication authorization federated identity CSRF XSS and secure headers Real time application development is handled with practical WebSocket architectures scaling strategies and approaches for synchronizing hybrid APIs in modern distributed systems Rounding out the book are chapters on modularization CLI automation dependency management and designing maintainable extensible codebases paired with actionable guidance on test driven development automated QA and advanced debugging You ll finish with battle tested strategies for production deployment containerization observability and operational excellence plus thoughtful perspectives on ecosystem integration and the future evolution of AdonisJS making this an essential resource for dedicated practitioners and ambitious newcomers aiming for expert level proficiency

Real-Time Applications with Node.js Rafael Sanders,Miguel Farmer,2025-04-11 Real Time Applications with Node js Build Scalable Real Time Systems is the ultimate guide to mastering the art of building real time applications using Node js Whether you re new to Node js or an experienced developer looking to create dynamic real time systems this book will walk you through the process of building scalable applications that require instant updates and seamless communication between users Node js is well suited for real time applications because of its non blocking event driven architecture This book will show you how to harness the power of Node js to create applications like live chat apps collaborative tools online games and more With a strong focus on scalability performance and security you ll learn how to build applications that can handle thousands of simultaneous connections What you ll learn in Real Time Applications with Node js Introduction to Node js and Real Time Applications Understand the fundamental concepts of Node js and how it is used to build scalable real time applications Learn about its asynchronous event driven architecture and how it enables real time communication Setting Up Your Node js Development Environment Learn how to install and configure Node js and set up your development environment with essential tools such as npm Node Package Manager Understand how to manage dependencies and organize your project structure Understanding Event Driven Programming in Node js Dive into the core of Node js by mastering event driven programming Learn how Node js uses the event loop to handle multiple tasks concurrently without blocking the execution thread and how to use EventEmitters and Listeners Building Real Time Apps with WebSockets Learn how to create real time communication between clients and servers using WebSockets Discover how to integrate WebSocket libraries like socket io with Node js to build interactive live updating features like chat applications and live notifications Building a Real Time Chat Application Put your learning into

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Building Scalable Web Applications with Node.js Franziska Baumfeld,Anselm

Lichtenberg,2025-08-24 Want to build fast reliable and scalable web applications Node js has become the go to technology for modern developers who need high performance back end systems Its event driven non blocking architecture makes it perfect for building apps that can handle millions of users real time updates and heavy workloads Building Scalable Web Applications with Node js is your complete guide to mastering Node js for professional web development With a clear step by step approach this book takes you from the fundamentals of Node js to advanced strategies for building production ready applications Inside you ll discover How Node js works under the hood and why it s ideal for scalability Building APIs microservices and real time applications Connecting Node js apps to databases and cloud platforms Authentication authorization and securing your applications Performance tuning debugging and deployment best practices Hands on projects that guide you from simple apps to high performance systems Whether you re a student learning back end development a freelancer delivering client projects or a professional developer scaling enterprise apps this guide gives you the skills and confidence to succeed Don t just build apps build apps that scale effortlessly

Scaling Your Node.js Apps

Fernando Doglio,2018-11-28 Take your Node js application into production ready status capable of scaling up to whatever your needs might be You ll discover that architecting for successful popular sites is an essential tool of any professional Node js developer and learning to scale your own applications is a great place to start Using this book you will learn when to scale what factors should trigger scaling and what architectural techniques are best suited for scaling You will also explore common pitfalls that arise when scaling a Node js application and solutions to correct them Including analyses of success

cases at the largest scale companies such as Netflix and Paypal this book will get you started with scaling in no time at all
What You ll Learn Determine what factors should trigger the need to scale Discover different architectural patterns that lend themselves to scaling Resolve problems that arise when scaling up a Node js application Monitor a platform in order to understand when to start scaling Who This Book Is For The main audience for this book are Node js developers with a mid level understanding of the technology Novice Node users will also benefit from the coverage of generic scaling related topics

Node.js Projects Jonathan Wexler, 2025-07-31 Whether you re a JavaScript beginner ready to build your first backend app or a self taught developer looking to grow beyond tutorials Node js Projects gives you the hands on experience you need Through a series of self contained projects ranging from content aggregators to secure password managers web scrapers ML backed analysis and an AI powered learning assistant you ll apply modern tools like Fastify MongoDB Redis JWT and Google s Gemini API in practical job relevant ways With each chapter author Jonathan Wexler challenges you to think like an engineer emphasizing architectural thinking clean coding and iterative design You ll build confidence solving real world problems while deepening your understanding of asynchronous programming API design security practices and scalable deployment patterns Confidently master async programming with async await and the Node js event loop Effectively design scalable APIs using Fastify and modular routing patterns Reliably manage data with the filesystem MongoDB and CSV output Securely implement authentication flows with JWTs and environment based configs Seamlessly integrate third party APIs like OpenAI and Google Gemini Efficiently build real time features with Redis schedulers and event driven logic Smoothly transition from prototype to production with modern Node js workflows

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