



Community Experience Distilled

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

Krasimir Tsonev



Building Scalable Apps With Redis And Node Js:

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 Building Scalable Web Apps with Node.js and Express Yamini Panchal, Ravi Kumar Gupta, 2024-06-24 TAGLINE 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 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 WILL YOU 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 WHO IS THIS BOOK FOR This book is tailored for software developers programmers and web developers eager to advance their skills in Node js TypeScript and Express js Whether you re a seasoned developer looking to deepen your expertise or a tech enthusiast keen on exploring the latest trends in web development this book provides the knowledge and tools to elevate your proficiency in the Node js ecosystem TABLE OF CONTENTS 1 Introduction to Node js 2 Introduction to TypeScript 3 Overview of Express js 4 Planning the App 5 REST API for User Module 6 REST API for Project and Task Modules 7 API Caching 8 Notification Module 9 Testing API 10 Building and Deploying Application 11 The Journey Ahead Index *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

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Advances in Intelligent Systems and Computing III Natalia Shakhovska, Mykola O. Medykovskyy, 2018-11-19 This book reports on new theories and applications in the field of intelligent systems and computing It covers computational and artificial intelligence methods as well as advances in computer vision current issues in big data and cloud computing computation linguistics and cyber physical systems It also reports on data mining and knowledge extraction technologies as well as central issues in intelligent information management Written by active researchers the respective chapters are based on papers presented at the International Conference on Computer Science and Information Technologies CSIT 2018 held on September 11 14 2018 in Lviv Ukraine and jointly organized by the Lviv Polytechnic National University Ukraine the Kharkiv National University of Radio Electronics Ukraine and the Technical University of Lodz Poland under patronage of Ministry of Education and Science of Ukraine Given its breadth of coverage the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems and is sure to foster new discussions and collaborations among different groups

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

Practical Node.js Azat Mardan,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 Mongoose 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

Programming Big Data Applications: Scalable Tools And Frameworks For Your Needs Domenico Talia,Paolo Trunfio,Fabrizio Marozzo,Loris Belcastro,Riccardo Cantini,Alessio Orsino,2024-05-03 In the age of the Internet of Things and social media platforms huge amounts of digital data are generated by and collected from many sources including sensors mobile devices wearable trackers and security cameras These data commonly referred to as big data are challenging current storage processing and analysis capabilities New models languages systems and algorithms continue to be developed to effectively collect store analyze and learn from big data Programming Big Data Applications introduces and discusses models programming frameworks and algorithms to process and analyze large amounts of data In particular the book provides an in depth description of the properties and mechanisms of the main programming paradigms for big data analysis including MapReduce workflow BSP message passing and SQL like Through programming examples it also describes the most used frameworks for big data analysis like Hadoop Spark MPI Hive and Storm Each of the different systems is discussed and compared highlighting their main features their diffusion both within their community of developers and among users and their main advantages and disadvantages in implementing big data analysis applications

Node.js Projects Jonathan Wexler,2025-08-08 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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