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Microcontrollers existed before the Arduino, and a device that anyone could program and blink an LED existed before the first Maker Faire. This might come as a surprise to some, but for others ...

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framework called Mirage that is designed specifically to support applications running on cloud infrastructure platforms such as ...

Software development

In App Engine, the low-code application platform where citizen developers build their apps, "they have the option of using a template," Kahn says. Common tasks like assigning, tracking ...

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This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Java applications in the cloud with Google App Engine. The flagship of Google's Cloud Platform, App Engine hosts your app on infrastructure that grows automatically with your traffic, minimizing up-front costs and accommodating unexpected visitors. You'll learn hands-on how to perform common development tasks with App Engine services and development tools,

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including deployment and maintenance. For Java applications, App Engine provides a J2EE standard servlet container with a complete Java 7 JVM and standard library. Because App Engine supports common Java API standards, your code stays clean and portable. Get a hands-on introduction to App Engine's tools and features, using an example application Simulate App Engine on your development machine directly from Eclipse Structure your app into individually addressable modules, each with its own scaling configuration Exploit the power of the scalable Cloud Datastore, using queries, transactions, and data modeling with JPA Use Cloud SQL for standard relational databases with App Engine applications Learn how to deploy, manage, and inspect your application on Google infrastructure

As one of today's cloud computing services, Google App Engine does more than provide access to a large system of servers. It also offers you a simple model for building applications that scale automatically to accommodate millions of users. With Programming Google App Engine, you'll get expert practical guidance that will help you make the best use of this powerful platform. Google engineer Dan Sanderson shows you how to design your applications for scalability, including ways to perform common development tasks using App Engine's APIs and scalable services. You'll learn about App Engine's application server

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architecture, runtime environments, and scalable datastore for distributing data, as well as techniques for optimizing your application. App Engine offers nearly unlimited computing power, and this book provides clear and concise instructions for getting the most from it right from the source. Discover the differences between traditional web development and development with App Engine Learn the details of App Engine's Python and Java runtime environments Understand how App Engine handles web requests and executes application code Learn how to use App Engine's scalable datastore, including queries and indexes, transactions, and data modeling Use task queues to parallelize and distribute work across the infrastructure Deploy and manage applications with ease

This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Python applications in the cloud with Google App Engine. The flagship of Google's Cloud Platform, App Engine hosts your app on infrastructure that grows automatically with your traffic, minimizing up-front costs and accommodating unexpected visitors. You'll learn hands-on how to perform common development tasks with App Engine services and development tools, including deployment and maintenance. App Engine's Python support includes a fast Python 2.7 interpreter, the standard library, and a

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WSGI-based runtime environment. Choose from many popular web application frameworks, including Django and Flask. Get a hands-on introduction to App Engine's tools and features, using an example application Simulate App Engine on your development machine with tools from Google Cloud SDK Structure your app into individually addressable modules, each with its own scaling configuration Exploit the power of the scalable Cloud Datastore, using queries, transactions, and data modeling with the ndb library Use Cloud SQL for standard relational databases with App Engine applications Learn how to deploy, manage, and inspect your application on Google infrastructure

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

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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,

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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

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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.

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

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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.

Build exciting, scalable web applications quickly and confidently using Google App Engine and this book, even if you have little or no experience in programming or web development. App Engine is perhaps the most appealing web technology to appear in the last year, providing an easy-to-use application framework with basic web tools.

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While Google's own tutorial assumes significant experience, Using Google App Engine will help anyone get started with this platform. By the end of this book, you'll know how to build complete, interactive applications and deploy them to the cloud using the same servers that power Google applications. With this book, you will: Get an overview of the technologies necessary to use Google App Engine Learn how to use Python, HTML, Cascading Style Sheets (CSS), HTTP, and DataStore, App Engine's database Grasp the technical aspects necessary to create sophisticated, dynamic web applications Understand what's required to deploy your applications Using Google App Engine is also an excellent resource for experienced programmers who want to acquire working knowledge of web technologies. Building web applications used to be for experts only, but with Google App Engine-and this book-anyone can create a dynamic web presence.

Summary Google Cloud Platform in Action teaches you to build and launch applications that scale, leveraging the many services on GCP to move faster than ever. You'll learn how to choose exactly the services that best suit your needs, and you'll be able to build applications that run on Google Cloud Platform and start more quickly, suffer fewer disasters, and require less maintenance. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning

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Publications. About the Technology Thousands of developers worldwide trust Google Cloud Platform, and for good reason. With GCP, you can host your applications on the same infrastructure that powers Search, Maps, and the other Google tools you use daily. You get rock-solid reliability, an incredible array of prebuilt services, and a cost-effective, pay-only-for-what-you-use model. This book gets you started. About the Book Google Cloud Platform in Action teaches you how to deploy scalable cloud applications on GCP. Author and Google software engineer JJ Geewax is your guide as you try everything from hosting a simple WordPress web app to commanding cloud-based AI services for computer vision and natural language processing. Along the way, you'll discover how to maximize cloud-based data storage, roll out serverless applications with Cloud Functions, and manage containers with Kubernetes. Broad, deep, and complete, this authoritative book has everything you need. What's inside The many varieties of cloud storage and computing How to make cost-effective choices Hands-on code examples Cloud-based machine learning About the Reader Written for intermediate developers. No prior cloud or GCP experience required. About the Author JJ Geewax is a software engineer at Google, focusing on Google Cloud Platform and API design. Table of Contents PART 1 - GETTING STARTED What is "cloud"? Trying it out: deploying WordPress on Google Cloud The cloud data center PART 2 -

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STORAGE Cloud SQL: managed relational storage Cloud Datastore: document storage Cloud Spanner: large-scale SQL Cloud Bigtable: large-scale structured data Cloud Storage: object storage PART 3 - COMPUTING Compute Engine: virtual machines Kubernetes Engine: managed Kubernetes clusters App Engine: fully managed applications Cloud Functions: serverless applications Cloud DNS: managed DNS hosting PART 4 - MACHINE LEARNING Cloud Vision: image recognition Cloud Natural Language: text analysis Cloud Speech: audio-to-text conversion Cloud Translation: multilanguage machine translation Cloud Machine Learning Engine: managed machine learning PART 5 - DATA PROCESSING AND ANALYTICS BigQuery: highly scalable data warehouse Cloud Dataflow: large-scale data processing Cloud Pub/Sub: managed event publishing

The complete guide to developing and deploying fast Google App Engine cloud systems: performance-driven techniques for every Java developer * *Teaches everything Java programmers need to know to build complex, production quality applications, via a single book-length case study. *Introduces a performance-driven approach that also ensures maintainability, and presents practices and principles for improving performance even more *For every Java programmer seeking a seamless path to highly-scalable cloud application development. Cloud computing fundamentally changes the way applications are created and managed.

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When done right, system administration becomes trivial, and concerns about adequate hardware, capacity planning, or scalability are virtually eliminated. With Google's App Engine, millions of Java developers can quickly begin to develop cost-effective systems to operate in the cloud. However, when Java developers use familiar frameworks and techniques to build these systems, they often encounter surprising, unexpected performance problems. Essential App Engine teaches a start-to-finish approach to performance-driven App Engine development with Java. Through a complete, book-length case study, Java developers master all the concepts and techniques they need, from application design through data storage, task scheduling through security. Coverage includes:

- * Systematically maximizing performance without compromising maintainability -- creating applications that are 10x+ faster on cold startup, and offer quick server response throughout their sessions.
- * Avoiding or minimizing the use of frameworks and libraries that cause performance problems.
- * Improving browser performance through the proper use of HTTP, HTML, CSS, JavaScript, and profiling.
- * Modeling data for App Engine's non-SQL data storage.
- * Ensuring app quality and managing development efficiently, through deployment and beyond.

The recent explosion of digital media, online networking, and e-

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commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. *Web-Based Services: Concepts, Methodologies, Tools, and Applications* provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network, providing researchers, computer scientists, web developers, and digital experts with the latest knowledge and developments in Internet technologies.

Android Firebase is a cloud service provider as well as a backend business that allows you to obtain organized data for mobile apps. This is an important aspect as almost all mobile apps today needs user verification and updates. Firebase is easy to use and allows quick reading and writing of data even for beginners. Firebase can be used to build iOS, Android and even web-based applications with real time data and storage and makes a variety of other products that software developers can utilize.

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