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Appengine Python Ebooks
From the ebook: From its humble beginnings with Google App Engine back in 2008, Google has grown its Google Cloud Platform (GCP) into one of the premier cloud computing

platforms on the market today.

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Google Cloud Platform: An insider's guide
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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.
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.

If you are a Python developer, whether you have experience in web applications development or not, and want to rapidly deploy a scalable backend service or a modern web application on Google App Engine, then this book is for you.

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 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

In Essential App Engine, Adriaan de Jonge
shows Java developers how to rapidly build
complex, productionquality, performance-
driven cloud applications with Google App
Engine. Using a start-to-finish case study
and extensive Java example code, De Jonge
covers the entire lifecycle, from application
design and data modeling through security,
testing, and deployment. De Jonge introduces
breakthrough techniques for creating
applications that respond within two seconds,
even on cold startup, and allow server
responses in hundreds of milliseconds or less
throughout the rest of the session. He also
demonstrates how to avoid common mistakes
that can dramatically reduce cloud
application performance and scalability. He
thoroughly covers state-of-the-art user

interface development and shows how to make the most of Google App Engine's extensive set of APIs. Coverage includes Setting up a development environment that makes it easy to continually address performance Understanding the anatomy of a Google App Engine application Making the right technical setup and design choices for each new application Efficiently modeling data for App Engine's NoSQL data storage Recognizing when to avoid OR-mapping and pass datastore entities directly to HTML templates Finding alternatives to frameworks and libraries that impair App Engine performance Using JavaScript and AJAX on the client side of your cloud applications Improving browser performance and reducing resource consumption via better use of HTML5 and CSS3 Taking advantage of key App Engine APIs: datastore, blobstore, mail, task scheduling, memory caching, URL retrieval, and messaging Securing cloud-based Web applications with Google Accounts, OpenID, and OAuth Improving your cloud development, quality assurance, and deployment processes Targeting, marketing, and selling cloud solutions, from planning to payment handling

Learn all that's needed to build a fully functional web application from scratch. Key Features Delve deep into the principle behind RESTful API Learn how to build a scalable web application with the RESTful API architecture and Flask framework Know what are the exact

tools and methodology to test your applications and how to use them Book Description Python is a flexible language that can be used for much more than just script development. By knowing the Python RESTful APIs work, you can build a powerful backend for web applications and mobile applications using Python. You'll take your first steps by building a simple API and learning how the frontend web interface can communicate with the backend. You'll also learn how to serialize and deserialize objects using the marshmallow library. Then, you'll learn how to authenticate and authorize users using Flask-JWT. You'll also learn how to enhance your APIs by adding useful features, such as email, image upload, searching, and pagination. You'll wrap up the whole book by deploying your APIs to the cloud. By the end of this book, you'll have the confidence and skill to leverage the power of RESTful APIs and Python to build efficient web applications. What you will learn Understand the concept of a RESTful API Build a RESTful API using Flask and the Flask-Restful extension Manipulate a database using Flask-SQLAlchemy and Flask-Migrate Send out plaintext and HTML format emails using the Mailgun API Implement a pagination function using Flask-SQLAlchemy Use caching to improve API performance and efficiently obtain the latest information Deploy an application to Heroku and test it using Postman Who this book is for This book is ideal for aspiring

software developers who have a basic-to-intermediate knowledge of Python programming and who want to develop web applications using Python. Knowledge of how web applications work will be beneficial but is not essential.

A complete guide to building and deploying web apps withHeroku A cloud application platform, Heroku is currently the onlyapproved platform for creating apps within Facebook, and its numberof users is growing at rapid pace. However, there are very fewbooks on the market that offer professional-level coverage of thisplatform, until now. The author duo begins with an introduction tothe Heroku platform and its associated core concepts and then goeson to explain how writing for this platform differs from that oftraditional development systems. Example applications, additionalresources, and advice for your next steps round out this resource,making it a thorough, indispensable guide. Features information not found anywhere else, as both authorswork for Heroku Explains the inner workings of Heroku with special emphasisplaced on building web and mobile applications Introduces GIT-based development workflow and the process modelwithin the Heroku platform Details coding, building, deploying, and scaling effectivelyusing the Heroku tool base Providing you with fully functional code and downloadable codeexamples, Professional

Heroku Programming is your completeguide to mastering this platform.

With an interesting mix of theory and practicals, explore Python and its features, and progress from beginner to being skilled in this popular scripting language Key Features A comprehensive introduction to the world of Python programming Paves an easy-to-follow path for you to navigate through concepts Filled with over 90 practical exercises and activities to reinforce your learning Book Description After a brief history of Python and key differences between Python 2 and Python 3, you'll understand how Python has been used in applications such as YouTube and Google App Engine. As you work with the language, you'll learn about control statements, delve into controlling program flow and gradually work on more structured programs via functions. As you settle into the Python ecosystem, you'll learn about data structures and study ways to correctly store and represent information. By working through specific examples, you'll learn how Python implements object-oriented programming (OOP) concepts of abstraction, encapsulation of data, inheritance, and polymorphism. You'll be given an overview of how imports, modules, and packages work in Python, how you can handle errors to prevent apps from crashing, as well as file manipulation. By the end of this book, you'll have built up an impressive portfolio of projects and armed yourself with

the skills you need to tackle Python projects in the real world. What you will learn Use control statements Manipulate primitive and non-primitive data structures Use loops to iterate over objects or data for accurate results Write encapsulated and succinct Python functions Build Python classes using object-oriented programming Manipulate files on the file system (open, read, write, and delete) Who this book is for Python Fundamentals is great for anyone who wants to start using Python to build anything from simple command-line programs to web applications. Prior knowledge of Python isn't required.

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 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 - 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

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer

architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

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 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

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