



# Mastering Google App Engine

*By Mohsin Shafique Hijazee*

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**Mastering Google App Engine** By Mohsin Shafique Hijazee

## 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 programming language such as PHP, Ruby or Java 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.

## What You Will Learn

- Develop and scale your applications on top of Google App Engine's runtime environment
- Get firm grip of the Google App Engine's request handling mechanism and write request handlers
- Dive deep into Google's distributed NoSQL, highly scalable datastore and design your application around it
- Implement powerful search functionality backed with a 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
- Deploy, tweak, and manage apps in production on Google App Engine

## In Detail

Google App Engine allows you to develop highly scalable web applications or backends for mobile applications without worrying about system administration plumbing or hardware provisioning issues. Just focus on writing 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.

Starting with a walkthrough of what scalability is and how scalable web applications work, this book introduces you to the environment under which your applications operate 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.

After that, we will show you how to implement powerful search functionality backed by datastore. 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. You'll also learn how to execute long running tasks in background using queues.

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## Mastering Google App Engine By Mohsin Shafique Hijazee Bibliography

- Rank: #1300234 in eBooks
- Published on: 2015-10-08
- Released on: 2015-10-13
- Format: Kindle eBook

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## **Editorial Review**

### **About the Author**

Mohsin Shafique Hijazee Mohsin Shafique Hijazee started his programming adventure by teaching himself C, and later C++, mostly with the Win 32 API and MFC. Later, he worked with Visual Basic to develop an invoicing application for local distributors. In the meantime, .NET came along and Mohsin happened to be working with C# and Windows Forms. All of this was around desktop applications, and all of this happened during his days at university. Very few people have had a chance to work with fonts, and that's exactly what Mohsin happened to do as his first job-developing OpenType fonts for complex right to left calligraphic styles such as Nastaleeq. He developed two different fonts, one based on characters and joining rules, and the other one contained more than 18,000 ligatures both of which are in public domain. His first serious interaction with web development started with Ruby on Rails. Shortly after that, he discovered Google App Engine and found it to be a very interesting platform despite its initial limitations back in 2008, with Python being the only available runtime environment. Mohsin kept experimenting with the platform and deployed many production applications and mobile backends that are hosted on Google App Engine to this day. Currently, Mohsin is working as a backend software engineer with a large multinational Internet company that operates in the online classified space in dozens of countries across the globe.

## **Users Review**

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**Carolyn Charles:**

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