

Vivitsu Maharaja

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EDUCATION

Master of Science, Electrical & Computer Engineering
University of Florida, Gainesville, FL.

May 2014
GPA: 3.33/4.0

Bachelor of Engineering, Electronics & Communication
Dharmsinh Desai University, Nadiad, India.

May 2011
GPA: 62/100

EXPERIENCE

Software Development Engineer, Amazon Web Services, Seattle, WA

Jul 2016 - Present

- Currently working on the AWS SDK Platform team, responsible for delivering release automation and validation for public AWS SDKs.
- Previously, as part of the client team on Amazon WorkDocs (an enterprise file sharing and collaboration platform), I have worked on the Amazon WorkDocs web & Android clients, implementing and supporting major features as well as being responsible for operational duties that ensure a consistent and successful user experience. Primary technologies used are **AngularJS** & **Java** (for Android & other internal frameworks).
- Designed & implemented a web publishing pipeline for the Amazon WorkDocs product blog using the Jekyll & Ruby ecosystem. The website is published to Amazon S3, and served via AWS CloudFront.
- Implemented multiple collaboration features for the Amazon WorkDocs web client, and as part of a team, implemented a redesign of the web client. This included writing new components for major parts of the web client, including the account panel and profile page.

Software Engineer, LendingHome, San Francisco, CA

Feb 2015 - Jul 2016

- Designed & implemented a framework to schedule data pipelines using **Celery**, an asynchronous, concurrent task queue. Using this framework, we were able to improve performance of our existing pipelines by more than 100%.
- Implemented data pipelines which funnel all of the organization's internal & external data into our data warehouse, which powers all internal reporting and analytics.
- Developed & maintained a web service using **Flask**, **uWSGI** & **Tesseract** to automatically perform OCR on documents that are uploaded to the platform. The OCR-ed documents are then annotated by underwriters & auditors to speed up loan processing.

Software Engineer, Applied Intelligence, IO Data Centers, San Francisco, CA

Sep 2014 - Feb 2015

- Developed a data processing pipeline using **Apache Pig** to model the power profile of a datacenter using accumulated sensor data, as part of a larger effort to develop a data analytics platform using the **Apache Hadoop** ecosystem.
- Implemented Pig **UDFs (User-defined functions)** in **Java** to handle custom processing of input data including parsing, datetime handling and calculating statistics.

Embedded Engineer, Volansys Technologies, Ahmedabad, India

November 2011 - July 2012

- Developed & maintained a **USB 2.0 (EHCI)** driver, to allow clients on a LAN to boot using an USB to Ethernet adapter.
- Developed components to interface with the **PCI & BIOS** subsystems in order to manage the complete **state machine** of the host controller & maintain driver compatibility with adapters from multiple vendors.

PROJECTS

Distributed File System using Java

August 2013 - December 2013

- Designed & implemented a distributed filesystem with a peer-to-peer architecture & chunk based object storage.
- Developed software agents to detect & react to node failures (fault-tolerance) & ensure data consistency.
- Developed a multi-threaded client application to communicate with the cluster and store data on the filesystem.

SKILLS

- Programming Languages: Java, Python, JavaScript, Ruby.
- Familiar working with *NIX type operating systems, and a broad range of tools and open-source products. Can pick up new tools quickly.

COURSEWORK

Computer Architecture, Probability & Random Processes, Computer Networks, Distributed Computing, Cloud Computing, Autonomic Computing, Information Retrieval (Guided Research), Virtual Computers.