

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

- Software Engineer on AWS' internal SDK release automation platform, responsible for orchestrating SDK release workflows, which include linting and validating AWS service models, release schedule management, ensuring compliance with AWS API guidelines and AWS launch requirements, e.g. CloudFormation integration. Responsibilities include collaborating with SDK and service teams on new requirements and workflow and orchestration improvements.
- Significantly improved the platform notification layer, to communicate upcoming launch deadlines, reviewer churn, and enforce that launch action items are complete, e.g. testing new SDK versions before release.
- Improved integration with SDK build systems by building a metadata specification API, using which SDK teams can customize their build systems, e.g. specify branches related to specific service builds in SDK codegen repos, service specific configuration for individual SDKs, e.g., PowerShell, etc.
- Improved our authorization model to ensure service and SDK teams have the correct access when managing team-specific activities related to their SDK launch.
- Contributed to our team's annual operational planning exercise, outlining opportunities, goals, and plans for improving the value provided by our service to AWS in the coming years.
- Identified bottlenecks in our service's day-to-day operations, and contributed to goals for reducing the operational load and oncall activities for the service.
- Led the security and operation readiness review for our service, which includes classifying all known architectural and operational security, latency and availability risks, and coming up with a plan to mitigate them.
- Designed & implemented a web publishing pipeline for the Amazon WorkDocs product blog using the Jekyll framework - <https://blog.amazonworkdocs.com/>.

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%.
- 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 data processing pipelines using **Apache Pig** to analyze sensor data that monitors the power characteristics of a datacenter. The goal was to identify opportunities for automating workflows that would reduce overall power consumption.

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, including interfacing with the **PCI** & **BIOS** subsystems in order to manage the host controller **state machine** & maintain driver compatibility with adapters from multiple vendors.

PROJECTS

URL Shortener using C, JavaScript

November 2019

- Implemented a URL shortener in C in my spare time. The goal for this project to improve my C and web development skills, while using minimal external dependencies or libraries.

SKILLS

- Programming Languages: Comfortable in Java and Python. Familiar with C, Ruby and JavaScript
- Familiarity with Linux/Unix operating systems, git, bash, etc.