# Srinivas Muthu

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#### **EXPERIENCE**

# Software Engineer, Apple Maps Mar 2016 - Present

## Maps Display Eval Data Pipeline

Orchestrated the data pipeline for Maps Display eval numerical analysis. Map data are converted from a proprietary format to JSON using Spark. Aggregates are computed using Map Reduce and stored in Cassandra/ElasticSearch. Results are visualized in Tableau. Tech Stack: Jenkins CI, Python, Groovy, Spark (Scala), HDFS, Cassandra, ElasticSearch, Tableau.

# Maps Display Web Application

A set of web apps that expose Maps Display metadata and micro-services for internal use by other teams at Apple Maps. Tech Stack: Django, Postgres, Javascript, Tomcat. Containerized in Docker and deployed on Kubernetes.

# "Look Around" Display Eval Pipeline

A central controller makes distributed requests to Maps "Look Around" Servers and various metadata are evaluated for accuracy. Results are persisted in ElasticSearch and visualized in Kibana for triaging. Tech Stack: Python, Jenkins CI, ElasticSearch, Leaflet.js (for heat-maps), Heroku.

## Maps Cartography CI Tool

A web application intended to visualize the hierarchical impact of changes to Maps Stylesheets (as opposed to text changes highlighted by Git diffs). Tool runs as part of PR approval process, results are visualized using d3.js and uploaded to cloud. Tech Stack: Python (Flask), Objective-C, d3.js, Postgres, Heroku.

## Packaging Pytest frameworks as a Python Module

Developed a template to package pytest based frameworks as a python module. Benefits include tests versioning, ease of installation and removing the need for CI systems to fetch test repos directly. Project selected for talk at Apple Internal Developer Conference 2019

# Software Engineer Intern, Emerson (RIDGID Inc.) Jan 2015 - Sep 2015 Vendor Product Order Placement System

Contributed to the Java (Spring) based back-end driving RIDGID Inc's vendor order placement system. Tech Stack: Apache Wicket, Spring, Hibernate and Tomcat

## **SKILLS**

Python, Java, Scala, Javascript, Spark, Postgres, Cassandra, ElasticSearch, Jenkins, Git, Unix, Bash

### **EDUCATION**

University of Toledo — MSc. Electrical Engineering & Computer Science 2013-2015

Bits Pilani University — MSc. (Tech) Information Systems 2009-2013