Joshua Cook

Bash, C, Latex, Python, Ruby, Scala

BLAS/Lapack, numpy/scipy, `scikit`, Spark

*nix, AMQP, AWS, Chef, Docker, Heroku, RESTful APIs, SIP/VOIP, SQL/NoSQL, web sockets, Vagrant

+13104331646 · joshuacook.me · me@joshuacook.me

Experience

2/2016 - present **Automation Engineer** for **Telescope, Inc** (Los Angeles, Ca)

- Built **automation platform** for continuous automated testing of platform APIs.

5/2015 - 2/2016 **Sofware Quality Assurance Engineer** for **Invoca** (Santa Barbara, Ca)

- Performed quality assurance testing for a Ruby-on-Rails web application.
- Served as scrum master for development team.

8/2014 - 5/2015 **Computational Mathematics Internship** in the Lab of **Dr. Jussi Eloranta**

Cal State Northridge, Department of Chemistry and Biochemistry (Northridge, Ca)

- Elaborated upon algorithms for diagonalizing large matrices.
- Configured and maintained student Linux workstations (Fedora).

8/2012 - 8/2014 **Site Architect** for **Phylia de M.** (Los Angeles, Ca)

- Designed site architecture using Linux (Ubuntu), Apache, MySQL, and Magento (PHP).
- Configured and provisioned Linux servers for development and production environments.
- Managed multiple MySQL databases via scripted backup and maintenance.

Projects & Publications

Amazon Web Services

Designed **automation platform** using AWS Elastic Compute Cloud, Simple Queue Service, Relational Database Service, and Virtual Private Cloud. Wrote all system software and unit tests using Ruby-on-Rails, Sinatra, and RSpec.

Designed **image analysis system** using AWS Elastic Compute Cloud, Simple Queue Service, Relational Database Service, and Virtual Private Cloud. Wrote all system software and unit tests using Ruby-on-Rails, Sinatra, `scikit-image` and `scikit-learn`.

Docker

Published ***the Containerized Jupyter Platform*** on using Docker to build a distributed data science platform.

numpy/scipy

Presented poster titled ***Applications of Imaginary Time Propagation Method in Material Research*** on my computational research in Dr. Eloranta's lab and how it intersects with "wet" work around liquid-to-liquid phase change caused by quantum effects unique to Helium.

Ruby

Wrote **SIP Client Ruby Gem** and **SIP Load Testing Ruby Gem**.

Education

Bachelor of Science in Mathematics at Cal State Northridge (Northridge, Ca).

Senior Thesis: ***Computational Methods in Molecular Quantum Mechanics***

Master of Education at UCLA (Los Angeles, Ca).

Bachelor of Arts in English at UC Berkeley (Berkeley, Ca).

Machine Learning Nanodegree via **Udacity** *expected completion June 2016*