

Summary: Problem-solver looking for the next challenge to apply broad spectrum of skills cutting across backend and full stack design.

Experience: **Software Engineer, Oracle (Santa Clara, CA)** Oct 2016 – Mar 2017

- Developer in the Networking group, building optimized firmware stack used for High Throughput Data-Center Switches, balancing various trade-offs.
- Built packet-decoding infrastructure in Python, eliminating manual debug cycles.
- Cross functional role interfacing with hardware, software and board design teams.

Hardware Engineer, Oracle (Santa Clara, CA) July 2014 – Oct 2016

- Applied Object-Oriented Programming paradigm for the validation of the Networking chips.
- Developed test strategies, automated them using VMM framework and debugged complex failures to identify critical issues in the design and tools.
- Sole developer building a pattern-generator exercising valid and error cases for the entire module.

Internship: **Summer Intern, Oracle (Menlo Park, CA)** May-Aug 2013

- Built MATLAB models and developed mathematical equations for analyzing EMC response.

Skills:

Programming:	Java, Python, C, C++, Bash, SQL
Tools:	Git, Mercurial, Eclipse, Junit
Web:	HTML, CSS, JavaScript, Bootstrap
Technologies:	Spring-Boot, Docker, Maven, SQLite3, Linux

Projects: **Image Archiver**

- Built a web-app for uploading and downloading images which are archived in S3.
- Added authentication, sharing, thumb-nail generation and deletion support.

Twitter: Social Network Analysis

- Determined influencers within the network which can span the network using greedy algorithms.
- Identified close-knit community of retweeters with graph algorithms.

Maps: Shortest Distance and Overlay

- Used A* and Dijkstra algorithms to calculate shortest distance/time between 2 points, considering distance and speed limit and display it on the map.
- Integrated DarkSky Weather API to display current weather at any point on the map.

Web Crawler

- Scraped and parsed web data in the HTML, XML, JSON formats using Python.
- Used SQLite3 database as a backing store and visualized the data using D3.js.

Text Editor

- Added auto-complete (using BFS) and spellchecker with suggestions (using Trie) features.
- Implemented advanced text analysis which rated the text complexity for reading.

Web Projects

- Implemented a ToDo List application allowing user to add, delete and mark tasks as complete.
- Developed a Guess-the-Color game using RGB color palette.

Education: **University of Southern California: M.S. (ECE)** May 2014

- Courses: Computer Architecture, Advanced Computer Architecture, Design for Testability.