

Tony Situ

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EDUCATION

University Of California, Berkeley

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Degree: B.S. Electrical Engineering and Computer Sciences (GPA: 3.625)
Honors: Regents' and Chancellor's Scholar, Rose Hills Foundation
Science & Engineer Scholar
Coursework: Structure and Interpretation of Computer Programs (CS61A)
Data Structures (CS61B), Machine Structure, Discrete Math and
Probability Theory, Designing Information Systems and Devices.

QUALIFICATIONS

- **Programming:** Experienced in Python, Django, and Java; familiar with C, bash/batch scripting, HTML5/CSS, JavaScript, Ruby on Rails, and SQL.
- **Software:** Experienced in Microsoft Excel; familiar with Git.

SKILLS AND PROJECTS

Programming

- Developed a Twitter data visualizer, a clone of the video game Plants vs. Zombies, and a Scheme language interpreter in Python.
- Coded a n-gram viewer, a local revision control system (similar to Git), a predictive text system, and a simulator for 24, a card game, in Java.
- Building a scheduler web application and a file management utility in Python.

Data Analysis

- Participated in hydrogeology research in Mammoth Lakes near the Long Valley Caldera by organizing data on total dissolved solids, acidity, and assorted pollutants.
- Catalogued field data gathered by probes into Excel spreadsheets and organized data with pivot tables to facilitate statistical significance tests on various measurements.

Electrical Engineering

- Assembled a robot equipped with automated light sensitive navigation, omnidirectional movement, and sensor-based collision avoidance.
- Designed a solar cell imaging system and a capacitive/resistive touchscreen.

EXPERIENCE AND CLUBS

Academic Intern (Lab Assistant) for CS61A and CS61B

1/2015-Present

- Assisted in the development of a robust program to automatically grade assignments.
- Cooperated with other staff members to prepare and debug course programs.
- Tutored various students to facilitate their understanding of core CS concepts.

Software Engineer Intern at MCoreLab Inc

6/1/2015 – 8/7/2015

- Extended API of the OpenStack Project (Horizon and Nova) to include new user tools.
- Developed GUI and web framework for a memcached management platform.
- Automated product installation and patching on remote servers with Bash/Batch.
- Scripted SR-IOV vNIC attachments and one-to-one vCPU affinity assignments.
- Adapted ini file parser to allow users to customize default cloud configuration settings.
- Implemented a flat file database for users to store information about network nodes.