

Alan Zhang

a6zhang@gmail.com — (510) 604 0566 — alanszhang.com — github.com/alanszhang

EDUCATION

University of California, Berkeley

Graduated: May 2019

B.A. in Computer Science, Minor in Linguistics

GPA: 3.2

Courses: Operating Systems, Computer Architecture, Computer Security, Networking Architecture, Algorithms, Natural Language Processing, Computer Graphics, Data Structures, Machine Architecture, Advanced Linear Algebra, Discrete Math & Probability, Teaching CS

EXPERIENCE

Amazon - Global Parity Team

Seattle, WA

Software Development Engineer

September 2019 - Present

- Improving the Amazon customer experience across global marketplaces.
- Implementing a scalable data collection and reporting system to track Amazon's feature development gaps across marketplaces. Used by senior leaders to understand and reach goals.
- Developing full stack features for a GraphQL service optimized to handle big data. Built with AWS and a ReactJS web application.

Cisco Meraki

San Francisco, CA

Software Engineer Intern

May 2018 - August 2018

- Added AES-256 support to the Meraki Cryptography API for user and kernel level operations.
- Updated the MX security appliance's Auto VPN feature to use and negotiate AES-256.
- Improved security in thousands of enterprise network deployments worldwide.

Berkeley Emergent Space Tensegrities Lab

Berkeley, CA

Undergraduate Researcher

May 2017 - December 2017

- Researched a new design of space robots based off a 6-bar tensegrity structure.
- Redesigned an extensive software stack and communication protocol for robots.
- Created a flexible and stable API for developing and testing automatic-rolling algorithms.
- Provided direction and standardized engineering practices for future software development.

Pioneers in Engineering (PiE)

Berkeley, CA

Advisor, Board of Directors Member

May 2018 - Present

- Lead a student-run engineering outreach 501(c)(3) that develops skills through a hands-on realistic engineering experience.

Outreach Manager

August 2015 - May 2019

- Communicated with and analyzed the needs of 20+ schools and teachers, and 300+ students to improve their needs. Reshaping the focus of holistic and engaging STEM programs, including the flagship Robotics Competition held every Spring for under-served Bay Area high schools.
- Managed teams and sub-teams, of 20+ staff to host and run events on UC Berkeley's campus.

SKILLS

Languages Java, JavaScript, Python, C/C++, Go

Misc AWS services, GraphQL, React, big data, Unix-like systems, Arduino, Git, team leading

Interests Full stack development, systems engineering, computer architecture, running, STEM Education and Diversity, teaching for Microsoft TEALS