

# Alan Zhang

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## EDUCATION

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### University of California, Berkeley

Graduated: May 2019

B.A. in Computer Science with a minor in Linguistics

GPA: 3.2

Courses: Operating Systems, Algorithms, Data Structures, Computer Security, Networking Architecture, Natural Language Processing, Computer Graphics, Computer Architecture, Teaching CS

## EXPERIENCE

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### Amazon - International Technology and Global Parity Team

Seattle, WA

*Software Development Engineer*

September 2019 - Present

- Finding novel solutions for problems that block engineering teams from developing globally.
- Building a reporting system and closed-loop mechanisms to track retail website features, solicit diverse feedback, and drive cultural change across world-wide engineering teams and leaders.
- Operating and improving accuracy for big data pipelines to discover and measure Amazon's feature gaps across different geographical regions and languages.
- Rapidly building full stack features and services with AWS, React, GraphQL, and Java.

### 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 options 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 soft and flexible frames.
- 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 at UC Berkeley (PiE)

Berkeley, CA

*Advisor, Board of Directors Member*

May 2018 - Present

- Lead a STEM outreach 501(c)(3) that develops hands-on engineering experiences for underrepresented high school students in the SF Bay Area.

*Outreach Manager*

August 2015 - May 2019

- Communicated with and analyzed the needs of 20+ schools and teachers, and 300+ students to understand 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

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**Languages** Java, Python, JavaScript, 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