Alan Zhang

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EDUCATION

University of California, Berkeley   Graduated: May 2019
B.A. in Computer Science, 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

Amazon - Global Parity Team   Seattle, WA
Software Development Engineer   September 2019 - Present
- Building solutions to unify the Amazon customer experience across global marketplaces.
- Implementing a scalable data collection and reporting system to track Amazon's feature development gaps across marketplaces. Increasing transparency and improving the efficiency for senor leaders to quickly understand progress of and set retail business goals.
- Developing full stack features for a GraphQL service optimized to handle TBs of 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 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 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 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

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