

ALAN TON

► Contact

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► Summary

I am currently a fourth-year student studying Electrical Engineering & Computer Science at UC Berkeley passionate about software engineering, distributed systems, and cloud computing.

SKILLS

Python
Java
C
Linux/Unix
Git
MATLAB
AWS
Mercurial
Hack/PHP
Django
SQL
Golang

INTERESTS

Software Engineering
Computer Architecture
Cloud Computing
Education
Social Welfare
Operating Systems
Reliability Engineering

► Awards

May 2015
Boy Scouts of America
Eagle Scout

► Education

University of California, Berkeley

B.S. Electrical Engineering & Computer Science 2020

Relevant Coursework: Operating Systems & Systems Programming, Internet Architecture & Protocols, Algorithms, Compilers, Computer Architecture, Database Systems, Data Structures

► Employment

UC Berkeley College of Engineering

Undergraduate Student Instructor

Berkeley, CA

May 2019 to Current

- CS162: Operating Systems and Systems Programming
- Work closely with the professor to plan and develop course content and material
- Teach 2 weekly hour-long discussion section of 32 students
- Develop, debug, and grade homework assignments and exams for the course
- Hold office hours to assist students with course concepts, homework, and projects

Facebook

Production Engineer Intern

Menlo Park, CA

May 2019 to Aug. 2019

- Instagram Core Infrastructure Team
- Solve Instagram infrastructure reliability problems with a software engineering approach
- Automate the triage process for Instagram server errors with regression detection and error attribution techniques

Amazon Web Services

Software Development Engineer Intern

Seattle, WA

June 2018 to Aug. 2018

- Amazon EC2 (Elastic Cloud Compute) Networking Team
- Implement live update feature to enable running EC2 instances launched on the Linux platform to upgrade their entire networking software stack with minimal customer disruption
- Develop platform to test ClassicLink connections between EC2-Classic instances and Virtual Private Clouds (VPCs)

NASA Jet Propulsion Laboratory

Undergraduate Engineering Intern

Pasadena, CA

June 2017 to Aug. 2017

- Component Engineering and Assurance Office
- Manage and organize electronic database of over a million electrical components
- Automate the inventory check process and database transfer protocol with scripts written in Python and Excel Macros written in VBA
- Distribute electrical and electronic parts to missions across lab (e.g. Mars 2020, PIXL, NISAR)

► Activities

Computer Science Mentors

External Vice President

Aug. 2017 to Current

- Recruit and interview all candidate mentors at the beginning of the semester
- Lead weekly executive board meetings to guide the direction of the organization
- Support operations for 318 mentors and 1381 students
- Coordinate public and corporate outreach endeavors
- Build community between mentors and foster mentor identity

► Volunteering

Berkeley ANova

Site Leader

Sept. 2017 to Current

- Improve computer science education in under-resourced communities across the Bay Area
- Teach a project-based after-school program during biweekly trips to Ruidsdale Continuation School and Downtown Charter Academy in Oakland
- Developed Pygame-based project for high school students to learn how to program