

## Education

University of California, Berkeley

B.S. Electrical Engineering and Computer Sciences (CSE)

2014–2018

GPA: 3.526

- CS 61A: Structure and Interpretation of Computer Programs
  - CS 61B: Data Structures and Advanced Programming
  - CS 61C: Machine Structures
  - Physics 7B: Heat, Electricity, and Magnetism
  - Math 54: Linear Algebra and Differential Equations
  - EE 16A/B: Designing Information Devices and Systems
  - CS 70: Discrete Mathematics and Probability Theory
  - CS 170: Efficient Algorithms and Intractable Problems
- CS 188: Introduction to Artificial Intelligence
  - CS 189: Introduction to Machine Learning
  - EE 127: Optimization Models and Applications
  - CS 162: Operating Systems and Systems Programming
  - CS 168: Introduction to the Internet
  - CS 161: Computer Security  
*Spring 2018*
  - Statistics 155: Game Theory  
*Spring 2018*

## Experience

- Software Engineering Intern at Cisco Systems

May–August 2017

On an identity management project, I helped complete the frontend for tenancy administration and integrated it with the backend server. In addition, I created a configurable logging and capping system for email and SMS notifications, accessible via a REST API.
- Developer at Medium One

May–August 2016

Medium One is a platform for gathering and processing data from IoT devices. I contributed to a Wi-Fi module driver for a microcontroller along with the software that allowed it to securely access the platform. I also created a preliminary implementation of a connector between the platform and a third-party service and created workflows to process sensor data.
- Staff Member at UC Berkeley Open Computing Facility (OCF)

2015–2017

The OCF provides free services to students, faculty, and staff, including printing, web hosting, and UNIX shell and email accounts. As a staff member, I provide on-site computer lab support and maintenance of the infrastructure required for the facility's services.

## Skills

### Programming Languages

- Proficient in: Python, Java, C
- Experience with: Bash, Scheme, MIPS ASM, React.js

### Other Software

- Microsoft Office (Word, PowerPoint, Excel)
- Adobe CS6 (Photoshop, Illustrator, InDesign)
- Git version control system
- Docker/Kubernetes containerization system
- LaTeX typesetting system
- REAPER Digital Audio Workstation

### Notable Projects

- Scheme** (Python)  
Developed a Scheme interpreter to demonstrate understanding of recursion, scoping, and parsing.
- Gitlet** (Java)  
Designed and implemented a simplified version of the Git version control system based on serialization.
- Horse** (Python)  
Leveraged randomized graph traversals with a heuristic, dynamic programming, and post-processing to approximate solutions to an NP-hard problem.
- Pintos Operating System** (C)  
Implemented multiple process schedulers (priority donation, MLFQS), system calls for loading user programs, and a filesystem with directories.

## Extracurriculars

- Computer Science Undergraduate Association (CSUA) Member

2015–present

CSUA supports computer science students by facilitating industry events, hackathons, and workshops.
- Tutoring

2012–present

High school essay writing, math, biology, physics, and SAT/ACT preparation
- Interests

Programming, audio engineering, retro gaming

## Honors and Awards

- National Merit Finalist
- LSI Chairman's Scholarship