

## Education

### University of California, Berkeley

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

2014 - 2018

GPA: 3.485

- 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: 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  
*Fall 2017*
- CS 168: Introduction to the Internet  
*Fall 2017*

## Experience

- **Software Engineering Intern** at Cisco Systems *May–August 2017*  
On the Onedirectory 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–present*  
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
- L<sup>A</sup>T<sub>E</sub>X 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.
- **MIPS Assembler** (C and MIPS Assembly)  
Implemented an assembler and linker that handles a subset of the MIPS instruction set.
- **PageRank on Spark and Amazon EC2** (Python)  
Implemented a radically simplified version of the PageRank algorithm using a Python MapReduce framework.

## 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