

Education

<b>University of California, Berkeley</b> B.S. Electrical Engineering and Computer Sciences (CSE)	2014 - 2018 GPA: 3.485
<div><div><ul style="list-style-type: none"><li>CS 61A: Structure and Interpretation of Computer Programs</li><li>CS 61B: Data Structures and Advanced Programming</li><li>CS 61C: Machine Structures</li><li>Physics 7B: Heat, Electricity, and Magnetism</li><li>Math 54: Linear Algebra and Differential Equations</li><li>EE 16A: Designing Information Devices and Systems</li><li>CS 70: Discrete Mathematics and Probability Theory</li></ul></div><div><ul style="list-style-type: none"><li>CS 170: Efficient Algorithms and Intractable Problems</li><li>CS 188: Introduction to Artificial Intelligence</li><li>CS 189: Introduction to Machine Learning</li><li>EE 127: Optimization Models and Applications</li><li>CS 162: Operating Systems and Systems Programming <i>Fall 2017</i></li><li>CS 168: Introduction to the Internet <i>Fall 2017</i></li></ul></div></div>	

Experience

<b>Software Engineering Intern</b> 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.	
<b>Developer</b> 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.	
<b>Staff Member</b> 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
- 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.
- 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

<b>Computer Science Undergraduate Association (CSUA) Member</b> CSUA supports computer science students by facilitating industry events, hackathons, and workshops.	2015 - present
<b>Tutoring</b> High school essay writing, math, biology, physics, and SAT/ACT preparation	2012 - present
<b>Interests</b> Programming, audio engineering, retro gaming	

Honors and Awards

- National Merit Finalist
- LSI Chairman's Scholarship