

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

CS 168: Introduction to the Internet

Experience

Software Engineering Intern at Cisco Systems

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.

May–August 2017

Developer at Medium One

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.

May–August 2016

Staff Member at UC Berkeley Open Computing Facility (OCF)

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.

2015–present

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^AT_EX 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

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

2015 - present

Tutoring

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

2012 - present

Interests

Programming, audio engineering, retro gaming

Honors and Awards

- National Merit Finalist
- LSI Chairman's Scholarship