

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 2017
 - Statistics 155: Game Theory
Spring 2017

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.
- 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