#### **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 Oneldentity 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 micro-controller 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
- · 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