Christopher Allsman

(559) 288 2499 • callsman97@gmail.com • chris-allsman.github.io • linkedin.com/in/christopher-allsman

Education

2015-2019 BA in Computer Science - The University of California, Berkeley

Graduated with High Distinction (3.87 GPA)
Recognized as Outstanding GSI

Skills

Languages

- Java (Experienced)
- Python (Expertise)
- PostgreSQL & SQLite
- Go

Technologies

- Linux OS/Ubuntu
- Django Web Applications
- Git Version Control
- Hadoop MapReduce (Familiar)

Professional Skills

- Relational Database Engines
- Testing & Debugging
- Distributed Systems
- Performance Monitoring, Benchmarking, & Optimization

Career & Volunteer Experience

2017 - 2019 University of California, Berkeley
Instructor - CS 61A (2019)
Teaching Assistant, Head of Content (2017 -2019)

- Developed and maintained course software, including a system for automating assignment creation, allowing the course to scale to 150 staff members and 1,700+ students
- Spearheaded design and testing for the course's first new project since 2015, conceived to teach students recursion and sequence processing. Recognized as a Nifty Assignment at SIGSCE 2020
- Analyzed feedback from over 200 students and devised improved, personalized sections for the course's first online offering

2016 - 2019 Computer Science Mentors
Course Coordinator (2018)
Internal Vice President (2019)

- Guided the development of small-group tutoring sections by managing scheduling logistics and content creation, scaling the organization to support over 1,500 students
- Revamped training given to 100+ mentors bi-annually to address multicultural competency and mental health issues

2016 Fresno Unified School District
Web Development Intern

- Created and optimized search functionality for the Educational Technology website, allowing teachers at over 100 schools to easily access resources
- Collaborated with the Department of Curriculum to produce responsive and reusable site templates, providing a centralized location for faculty to share content

Projects

2019 Lab Planner

- Managed a multidisciplinary group to create a Java application capable of generating genetics experiments from a minimal specification, used to automate running a 25-person lab
- Reduced burden on instructors by tracking and updating lab inventory as experiments complete
- Enabled scheduling for 30+ person labs by minimizing downtime between tasks and assigning students responsibilities based on their level of training

2018 Typed Python Compiler

- Teamed with a group of 5 people to create a compiler in ~3 months, iterating on Python 2 by introducing static type checking, generics, and overloading while maintaining its accessibility
- Implemented optimized integer operations to be twice as space-efficient and up to ten times faster