Lawrence Chen

✉ lawrencechen14@berkeley.edu
📞 (209) 298-7594
🌐 lawrencechen14.github.io

EDUCATION

University of California, Berkeley
College of Engineering
B.S. in Electrical Engineering and
Computer Sciences

College of Letters & Science
B.A. in Data Science

May 2020

COURSEWORK

Upper Division
Algorithms
Artificial Intelligence
Principles of Data Science

Lower Division
Data Structures
Machine Structures
Interpretation of Computer Programs
Information Devices and Systems
Foundations of Data Science
Discrete Math and Probability
Linear Algebra
Multivariate Calculus

SKILLS

Programming
Python • Java • C • HTML • CSS •
JavaScript • React.js • Redux.js •
Google Apps Script • LaTeX • SQL •
Bash • RISC-V (Assembly)

Data Science
NumPy • SciPy • Pandas • Matplotlib
• SciKit-Learn • Apache Spark • Data
Visualization • EDA

Software
Git • IntelliJ • WebStorm • PyCharm
• Google Sheets API • Google Cloud
Platform • Google Cloud Natural
Language API • Google Calendar API
• Google Analytics

Design
Web Development • Photoshop

EXPERIENCE

Classroom Systems Analyst | UC Berkeley Office of the Registrar
Spring 2018 | Berkeley, CA
- Coded scripts for Google Sheets using Google Apps Script to simplify and optimize processing large data sets
- Created and self-directed projects from often vague requests
- Collaborated with non-technical workers in a professional setting
- Scheduled classrooms for both student and faculty use for a university with over 40000 people

Software Developer | Pioneers in Engineering
Spring 2017- Spring 2018 | Berkeley, CA
- Official staff member of an organization that supports STEM education for over 700 high school students around the Bay Area
- Developed Dawn, a UI built using web technologies for controlling robots, with a group of 6 people
- Learned to work cooperatively with a group even in remote using a version control system

TEACHING

CS61A/B Academic Intern | University of California, Berkeley
Spring 2017-2018 | Berkeley, CA
- Taught students one-on-one in the introductory computer science course and data structures course, each with over 1500 students
- Helped students on programming fundamentals and curriculum

PROJECTS

20+ Hours Script | UC Berkeley Office of the Registrar
Fall 2017 | Berkeley, CA
- Created with Google Apps Script a script that analyzes and quarantines organizations who violate university policies to expedite management
- Program sifts through thousands of rows of data in a matter of seconds, speeding up a task that would otherwise take hours

Dawn | Pioneers in Engineering
Fall 2017 | Berkeley, CA
- Redesigned and refurbished a cross-platform frontend for the PiE robotics control system using React.js
- Added and cleaned up features to create a more intuitive UI for high school students when they program their robots

Database | Data Structures Project
Spring 2017 | Berkeley, CA
- Created with Java a relational database management system
- Built a domain specific language similar to SQL to interact with it

BearMaps | Data Structures Project
Spring 2017 | Berkeley, CA
- Created with Java a map of Berkeley with zoom-in functionality by implementing a QuadTree data structure
- Implemented A* search to calculate the shortest path between two locations on the map