

Lawrence Chen

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EDUCATION

University of California, Berkeley

B.S. in Electrical Engineering and
Computer Sciences

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 •

LaTeX • RISC-V (Assembly) • SQL •

Arduino • Bash

Software

Git • IntelliJ • WebStorm • CLion •

PyCharm • Google Cloud Platform •

Google Cloud Natural Language API

• Google Calendar API • Cisco Spark

API • Adobe Photoshop • Adobe

Lightroom

Languages

English — Native proficiency

Spanish — Limited working
proficiency

Cantonese — Limited working
proficiency

EXPERIENCE

Classroom Systems Analyst | University of California, Berkeley

Spring 2018 | Berkeley, CA

- Coded scripts for Microsoft Excel and Google Sheets to simplify and optimize data processing
- Scheduled classrooms for student and faculty use for a large university with tens of thousands of people
- Learned how to make judgments and decisions when instructions or requests were vague

Software Developer | Pioneers in Engineering

Spring 2017 - Spring 2018 | Berkeley, CA

- Official staff member of an organization that supports STEM education for over 300 high school students
- Collaborated with a group of 6 to develop Dawn, a UI built using web technologies for controlling robots
- Helped design and create the Final Competition website that displays information about schools and events

CS61A Academic Intern | University of California, Berkeley

Spring 2017 | Berkeley, CA

- Taught and helped students the introductory computer science course with over 1600 students
- Assisted TAs and students during one lab and office hour per week

PROJECTS

Dawn | Pioneers in Engineering

Fall 2017 | Berkeley, CA

- Redesigned a cross-platform frontend for the PiE robotics control system
- Added and cleaned up features to make use easier when students program and test their robots

Database | CS61B, Data Structures Course

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 | CS61B, Data Structures Course

Spring 2017 | Berkeley, CA

- Created with Java a map of Berkeley by implementing a QuadTree data structure
- Implemented A* search to calculate shortest paths between two locations on the map

SIXT33N Car | EE16B, Information Systems Course

Spring 2017 | Berkeley, CA

- Constructed a front-end circuit accompanied with a mic circuit board that converts sound to a controlled signal
- Programmed an MSP430 Launchpad with Arduino code to perform principal component analysis to classify voice commands and control the actions of the car