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 • Google Apps Script • LaTeX • RISC-V (Assembly) • SQL • Arduino • Bash

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

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

Design
Adobe Photoshop • Adobe Lightroom • Adobe Illustrator

Languages
English — Native proficiency
Spanish — Limited proficiency
Cantonese — Limited proficiency

EXPERIENCE

Classroom Systems Analyst | University of California, Berkeley
Spring 2018 | Berkeley, CA
- Coded scripts for Google Sheets using Google Apps Script to simplify and optimize processing large datasets
- Scheduled classrooms for student and faculty use for a massive university with over 40000 people
- Learned how to make own 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

TEACHING

CS61A/B Academic Intern | University of California, Berkeley
Spring 2017-2018 | Berkeley, CA
- Taught and helped students in the introductory computer science course and data structures course, each with over 1500 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 for high school students when they 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 with zoom-in functionality by implementing a QuadTree data structure
- Implemented A* search to calculate the shortest path 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 into a controlled signal
- Programmed an MSP430 Launchpad with Arduino code to perform PCA to classify voice commands and control the car