

# 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 • 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 | 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
- 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 700 high school students around the Bay Area
- 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

### 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 for classroom management
- Program sifts through thousands of rows of data in a matter of seconds, expediting a task that would 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 make use easier for high school students when they program and test 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