

# Lawrence Chen

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## Education

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### University of California, Berkeley

Fall 2016 – Spring 2020

B.S. in Electrical Engineering and Computer Sciences

Relevant Coursework : Structure and Interpretation of Computer Programs, Data Structures, Designing Information Devices and Systems, Discrete Mathematics and Probability Theory

## Experience

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### University of California, Berkeley | CS61A Academic Intern

Spring 2017

- Taught and helped students in the introductory computer science course CS61A - Assisted TAs and students during one lab and one office hour per week

### Pioneers in Engineering | Staff Member

Spring 2017

- Official staff member of an organization that supports STEM education for local schools throughout the Bay Area and hosts robotics competitions
- Helped design and create the Final Competition website
- Worked in a group to help develop Dawn, a Javascript-based UI that provides controls for robots

### Speckle Interferometry and Orbital Plot of Double Star WDS 20176+2622 | Team Leader

2015-2016

- Research done in conjunction with an online astronomy course from Cuesta College - Used new data from the Kitt Peak Observatory to refine an older orbital solution of a double star system WDS 20176+2622
- Oversaw project and allocated work for other team members

## Projects

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### CS61B Database

Spring 2017

- Created with Java a relational database management system that can store multiple types of data in tables
- Built a domain specific language similar to the SQL language to interact with the database

### SIXT33N Car

Spring 2017

- Created a miniature car that can obey certain voice commands
- 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 to control the actions of the car

## Skills

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### Programming

- Python, Java, HTML, CSS, Javascript, Scheme, SQL, C, Arduino, cmd/Bash, LaTeX

### Software

- Git, IntelliJ, WebStorm, PyCharm, Netbeans, Word, Excel, PowerPoint

### Languages

- English (*native proficiency*), Cantonese (*elementary proficiency*), Spanish (*elementary proficiency*)