

# Boyang Li

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## EDUCATION

### University of California, Berkeley, College of Letters and Science

Berkeley, CA

- Bachelor of Art in Computer Science Aug 2019 - May 2023
- Bachelor of Art in Applied Math GPA: N/A
- Minor in Mechanical Engineering
- Coursework includes structure and interpretation of computer programs, data structures, linear algebra, discrete math and probabilities, multivariable calculus, designing information devices and systems, robot manufacture, and robot motion planning.

## EXPERIENCE

### Pioneers in Engineering

Berkeley, CA

*Software Developer*

Aug 2019 – Present

- Co-develop and maintain the existing system on robots for the competition, rewrote the current code to improve its performance
- Improved the error message from the code generated by **Pylint** to the interface for programming the robot.

### Cal Robobears

Berkeley, CA

*Member*

Aug 2019 – Present

- Create 3-pounds battle robots to compete in the annual battle robot competition hosted by Cal Robobears
- Use Fusion 360 to CAD and simulate the robot, manufactured the robot with 3D printing and CNC cutting

### Berkeley CSSA

Berkeley, CA

*Member of the Dept. of Public Relations*

Aug 2019 – Present

- Reached out to local businesses for various sponsorships during events, such as catering, clothing, and monetary support
- Cooperated with local restaurants to sell “VIP Card” with discounts as a form of promotion

### The Steel Dragons

Pittsburgh, PA

*Building Captain*

Aug 2017 – June 2019

- Led to design, build, and program robots to compete in the annual First Robotics Competition. Outreached to local companies such as Google and Hampshire Mechanics for sponsorships. Successfully raised over \$5,000 for the season
- Qualified for alliance captain and ranked 3rd regionally for the first time in the team’s history since its founding in 1998

### Allderdice Charity Club

Pittsburgh, PA

*President*

Aug 2018 – May 2019

- Organize over 30 non-profit educational sessions in the Carnegie Library of Pittsburgh, attracted cumulatively over 500 people
- Raised over \$500 for from the local companies such as Giant Eagle and 4Moms to buy materials necessary for the events

### Asian Student Union

Pittsburgh, PA

*Vice President*

Aug 2018 – May 2019

- Co-founded the first student organization for Asian students to voice their rights, promote culture, and fight against stereotypes
- Successfully held food sells, cultural shows, and movie nights to over 100 students to promote the awareness of Asian cultures

## PROJECTS

*Space Invader Game*

September 2019

- Personal gaming project as a replication of the famous space invader game. Written in **Python** with the **Turtle** library.
- Github Repository: [github.com/li-bo-yang/Space-Invader](https://github.com/li-bo-yang/Space-Invader)

*Personal Website*

October 2019

- Personal webpage project, serving as a portfolio, created using the **Ruby** static website generator **Jekyll**.
- Link: [li-bo-yang.github.io/homepage](https://li-bo-yang.github.io/homepage)

*CS 61A Projects*

September 2019 - October 2019

- Projects such as *Hog* (dice-tossing game), *Cats* (autocorrecting typing software inspired by Type-Racer), and *Ants v.s. SomeBees* (tower defense game inspired by Plants v.s. Zombies); all projects were written in **Python**.
- Github Repository: [github.com/li-bo-yang/Projects-for-CS61A](https://github.com/li-bo-yang/Projects-for-CS61A)

*Phillip*

March 2019

- FRC robot that I led to build when I was in my high school robotics team. Modeled with Fusion 360.
- Link: [www.steeldragons.org/past-seasons/2018-2019](http://www.steeldragons.org/past-seasons/2018-2019)

## ADDITIONAL SKILLS AND INTERESTS

**Foreign Languages:** Fluent in speaking/writing/reading in English and Chinese, can speak/write/read in French; scored 115 on TOEFL

**Programming Languages:** Programming in **Python**, **Java**, and **C** and using libraries such as **Turtle** and **NumPy**

**Standardized Tests:** 1560 on SAT (Reading 760, Math 800), 800 on SAT Physics and Math subject tests

**Advance Placement Tests:** 5 on Calculus BC, Physics C Mechanics, Statistics, and Microeconomics; 4 on U.S. History, English Language & Composition, and Physics C Magnetism. Received AP Scholar with Honor and AP Scholar with Distinction in 2017 & 2018, respectively

**Fencing:** I was the captain of JV fencing team in high school; I am currently a foilist of Cal Fencing Club