

Boyang Li

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EDUCATION

University of California, Berkeley, College of Letters and Science

Berkeley, CA

- Bachelor of Art in Computer Science and Applied Math Aug 2019 - May 2023
- Minor in Mechanical Engineering GPA: N/A
- 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 for running students' code on robots; rewrite the code to improve its performance
- Improved and reorganize the structure of the code to eliminate error messages generated by **Pylint**

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
- Negotiated and secured a \$8,000 sponsorship from Bank of America for the Spring Gala event.

The Steel Dragons

Pittsburgh, PA

Mechanical 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

Personal Website

October 2019

- Personal webpage project, serving as a portfolio, created using the **Ruby** static website generator **Jekyll**

CS 61A Projects

September 2019 - October 2019

- Projects such as *Hog* (dice-tossing game), *Cats* (autocorrecting typing software inspired by Type-Racer), *Ants v.s. SomeBees* (tower defense game inspired by Plants v.s. Zombies), and Scheme Interpreter; all projects were implemented in **Python**

Phillip

March 2019

- FRC robot that I led to build when I was in my high school robotics team. Modeled with Fusion 360 and built with FRC kits

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 **JavaScript**; 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