

Education

- **University of California, Berkeley** Berkeley, CA
B.A. Computer Science; GPA: 3.62 *Expected: Dec. 2020*
- **Pasadena City College** Pasadena, CA
A.A. Engineering And Technology, and Natural Science; Administration Honors GPA: 3.92 *Aug. 2018*

Courses

- **Completed:** Data Structures • Efficient Algorithms and Intractable Problems • Computer Architecture • Artificial Intelligence • Software Engineering • Discrete Mathematics and Probability Theory • Designing Information Devices and Systems • Business Analytics
- **In progress:** Operating Systems and System Programming • Principles and Techniques of Data Science

Skills

- **Languages:** (proficient): Python, Java, C/C++. (familiar): Javascript, HTML, CSS, SQL, R, Scheme, RISC-V, x86.
- **Tools/Libraries:** Git, Pandas, Numpy, SciPy, Matplotlib, D3.js, Latex, ROS, Qt.

Experience

- **Lab Assistant** Oct. 2019 - Present
Mobile Sensing Lab *Berkeley, CA*
 - Worked closely with agile development team to develop, test and maintain a webpage to enhance the demonstration of different algorithms for training autonomous vehicles. (Javascript, HTML, CSS, D3.js)
 - Processed and visualized data generated by FLOW, a simulator for using reinforcement learning to train autonomous vehicles to improve traffic flow. (Python)
- **Academic Intern** Jun. 2019 - Aug. 2019
University of California, Berkeley *Berkeley, CA*
 - Mentored 25 students in labs to solidify their understandings in data structure.
- **Software Engineer** Nov. 2017 - Oct. 2018
PCC Swarmathon Team *Pasadena, CA*
 - Designed and implemented schemes to improve the accuracy and efficiency of the drop-off process. (C++, python, OpenCV, ROS)
 - Constructed test cases for object detection and searching algorithm and created scripts to automate testing.
 - Directed team members to test searching and drop-off modules in simulator and on physical rovers.
 - Co-devised the Mars mission "Conquer Sub-collections with Aerial..." in a competition.
 - Integrated multiple modules to demonstrate the Mars mission using Gazebo.
- **Academic Assistant** Jun. 2017 - May 2018
Pasadena City College *Pasadena, CA*
 - Guided 20 students to work on projects in C++ or Python in labs.
 - Demonstrated basic project design techniques and provided instructions to facilitate the debugging process.

Projects

- **Taby(2020-present):** A Chrome extension that turns tabs into customized collections of URLs and makes retrieving and sharing URLs easier.(Javascript)
- **Bear Maps(2019):** Web-Based Interactive Map covering the entire region of UC Berkeley and the surrounding area. Integrated the ability of viewing the map in different resolutions, search bar auto-complete, and shortest routing.(Java)
- **Scheme Interpreter(2018):** An interpreter for the Scheme language(Python)
- **Database(2017):** Database implemented in B tree on disk to allow users to query data in SQL manner.(C++)
- **Sticky Noty(2017):** A desktop application that allows user to create, customize and organize sticky notes.(Java)

Awards

- 1st place in Mission to Mars 2018 • Dean's Honors • Honors in Math