Wangda Lei

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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**