

EDUCATION

- **University of California Berkeley** Berkeley, CA
Bachelor of Arts in Computer Science; GPA: 3.21 *Fall 2017 – Spring 2021*
 - **Selected Coursework:** Introduction to Artificial Intelligence, Probability & Random Processes, Efficient Algorithms and Intractable Problems, Great Ideas in Computer Architecture, Data Structures, Discrete Mathematics and Probability Theory, Data Science
 - **Languages:** Python, Java, C++, C, Assembly (RISC-V), HTML/CSS, Scheme, SQL
- **Mission San Jose High School** Fremont, CA
GPA: 3.74 *Fall 2013 – Spring 2017*
 - **AP Courses:** Calculus BC, Computer Science A, Physics 1, Statistics, Chinese
 - **Awards:** AP Scholar with Distinction (2017), AP Scholar with Honor (2016), NCBA Drum Major Champion (2016), MSJH Band Directors Award (2017)

EXPERIENCE

- **UC Berkeley EECS Department** Python, Scheme, SQL
CS 61A Programming Fundamentals Tutor/Reader (Current), Academic Intern (Past) *Spring 2018 - Present*
 - Met with 4-6 students weekly to review and reinforce material covered in lecture.
 - Used problem-based worksheets to hone students' understandings.
 - Created step-by-step guides to help students understand every problem in the worksheets.

PROJECTS

- **Software-based CPU** — private repository
Backend, Logisim, Assembly (RISC-V) | Fall 2018
 - Designed and built a virtual CPU running on a subset of the RISC-V architecture.
 - Currently supports 32 different instructions and a 2-stage pipeline.
- **Jupiter** — <https://github.com/jemmy-z/Jupiter>
Full Stack, Java, C++ | Spring 2017
 - PC based log-in verification program.
 - Three consecutive incorrect attempts will “freeze” the PC and only a select USB can revive the PC.
- **Trap_Box** — https://github.com/jemmy-z/Trap_Box
Frontend, C++ | Fall 2016
 - PC based GUI simulating 3D balls trapped inside a wire-frame box.
 - Program can be interacted with mouse drag-and-drops in addition to buttons with various options.

ACTIVITIES

- **Computer Science Mentors**
Senior Mentor (Current), Junior Mentor (Past) | Fall 2018 - Present
 - Led a group of 5-6 Junior Mentors in weekly meetings to share pedagogy tips and review technical content for each week's worksheets.
 - Created new content and helped plan and organize review sessions for CS 61A students

SKILLS

- **Fluent in:** English, Mandarin
- **Software:** IntelliJ, Sublime, Logisim, Adobe Creative Cloud (PS, AI)
- **Hobbies:** Wushu Athlete, Concert Pianist, Drum Major, Photographer