Peter E. Xu

Email: peterxu30@berkeley.edu
Website: peterxu30.github.io | Github: github.com/peterxu30

Education

University of California, Berkeley
B.A. Computer Science, expected May 2018
GPA: 3.52
Relevant Coursework: Structure & Interpretation of Programs, Linear Algebra & Differential Equations, Multivariable Calculus, Data Structures, Discrete Math & Probability Theory, Practical Programming

Mission San Jose High School
June 2014
GPA: 3.925, SAT: 2370

Skills

Proficient in Java, Python, Scheme, SQLite, HTML, CSS, Git, Microsoft Office, Adobe Photoshop, and Adobe InDesign.

Work Experience

Model Predictive Control Lab, Berkeley, CA   May 2015 - Present
Research Assistant under Professor Francisco Borelli
- Developing a modular *Flappy Bird*-like game to simulate human decision-making tests, from which data is collected to form models of human decision-making.

UC Berkeley Computer Science Department, Berkeley, CA
Tutor for CS 61A, The Structure and Interpretation of Programs   June 2015 - Present
- Lead weekly meetings of groups of six students to reinforce course concepts.
- Hold weekly office hours to assist students.
- Help develop teaching materials.

Lab Assistant for CS 61A, The Structure and Interpretation of Programs   January 2015 - May 2015
- Help students with lab work and in understanding the Python language and course concepts.

Academic Talent Development Program, Berkeley, CA
Instructor - Programming in Java Course   June 2015 - Present
- Teaching the Programming in Java course at ATDP, a UC Berkeley-affiliated summer program for high school students.
- Responsible for course curriculum and the learning of 23 students.

Teaching Assistant – Elements of Web Design Course   June 2014 - July 2014
- Managed group of five students. Counseled students one-to-one and ensured mastery of concepts.

Projects

Running Game (working title)
- *Flappy Bird*-like game being developed for the Model Predictive Control Lab at Berkeley. Designed to be modular with configurable settings and game modes.
- Data such as player, obstacle, and reward positions are recorded for research purposes. End goal is to run it online and connect it to a database to store aforementioned research data.

Activities & Honors

Upsilon Pi Epsilon (CS Honors Society), Berkeley, CA
Publicity Chair   May 2015 - Present
- Publicize UPE events through social media and on-campus advertising.
- Design and sell Cal CS apparel.
- Assist the rest of the UPE board with managerial duties.

Industrial Relations Committee Member   February 2015 - May 2015
- Contact companies to set up on-campus info sessions.