RICHARD S. ZHU

rszhu@berkeley.edu • 858-371-8838
linkedin.com/in/rszhu • github.com/richardszhu

EDUCATION

University of California, Berkeley   **Expected Graduation:** May 2023
B.A. Computer Science
GPA: n/a
Relevant Coursework:
Structure and Interpretation of Computer Programs, Designing Information Devices and Systems

SKILLS

Languages: Python, Java, SQL, JavaScript, HTML/CSS
Frameworks/Technologies: Git, Linux (Ubuntu), Android, NumPy

PROJECTS

Bomberman Remastered (Java, GitHub)
Improved remake of the classic video game Bomberman that can be played on modern devices
- Added an all-new local multiplayer mode, including dynamic player vs. player gameplay and a reworked keyboard control system
- Utilized the Java Swing Toolkit to update graphical textures and construct a window-based GUI

Smart Typing Practice Program (Python)
Interactive typing program which calculates typing speed and accuracy with every keystroke
- Implemented smart autocorrect feature, which compares typed input to a container of correct words, determines degree of similarity, and determines whether to replace the input
- Set up communication of clientside information to game servers for multiplayer integration

Final Grade Calculator (Python)
Final grade calculator script that takes weighted categories and point totals into consideration
- Constructed algorithm which computes a needed final exam score based off of a user's desired class grade
- Tailored to accomodate grade systems where final is not in a seperate category (Unlike RogerHub's)

ACTIVITIES

UC Berkeley Open Computing Facility (OCF)   **Berkeley, CA**
Staff Member   *Sep. 2019 — Present*
- Contributed to codebase of ocfweb, the OCF web page, which handles password resets, account creation, dynamic lab usage statistics, and more

Catalyst for Success   **San Diego, CA**
Treasurer   *Sep. 2017 — Aug. 2019*
- Worked with library officials to run a weekly program teaching programming and circuitry to over 250 local students (Python, Arduino, Javascript)
- Oversaw the organization's finances, raising $317.00 for new supplies

EXPERIENCE

Gateways Summer School   **San Diego, CA**
Teaching Aide   *Jul. 2018 — Aug. 2018*
- Aided Architecture & Engineering teacher with giving lessons and mentoring students
- Guided 30 students on their projects and supervised them during break, learning, and work times

Online Clothing Page   **San Diego, CA**
Self Employed   *Jan. 2018 — May 2019*
- Sold, packaged, and shipped clothing, cosmetics, books, and other items through an online webpage, with over 85 transactions totalling a revenue of $2,237.35

OTHER

Awards
- Intuit George A. Hansen Scholar for Computer Science
- San Diego Fraternity of Academic and Civic Excellence Selectant
- Southern California Developmental Soccer League Div. 1 Champion