

RICHARD S. ZHU

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EDUCATION	University of California, Berkeley <i>B.A. Computer Science</i> Relevant Coursework: Structure of Computer Programs, Information Devices and Systems	Expected Graduation: May 2023
SKILLS	Languages: Python, Java, SQL, JavaScript, HTML/CSS Frameworks/Technologies: Git, Linux (Ubuntu), Android, NumPy	
PROJECTS	Investment Portfolio Diversity Visualization Tool (Python, Matplotlib, Git) <i>Winning Project of the CalHacks 2019 BlackRock API Prize</i> Robust program that visualizes the diversity of an investment portfolio regarding any applicable security attribute <ul style="list-style-type: none">Integrated BlackRock API to compile, sort, and categorize attribute data for a inputted list of securitiesUsed Matplotlib widgets to visualize calculated diversity data and to create a GUI for selecting stock tickers, their portfolio values, and a specific attribute to examine Bomberman Remastered (Java, Git) Improved remake of the classic video game Bomberman that can be played on modern devices <ul style="list-style-type: none">Fully recreated core gameplay functionalities, such as player action timers and random power-up dropsAdded an all-new local multiplayer mode, including dynamic player vs. player gameplay and a reworked keyboard control systemUtilized the Java Swing toolkit to update graphical textures and construct a menu-based GUI Smart Typing Practice Program (Python) Interactive typing program which calculates typing speed and accuracy with every keystroke <ul style="list-style-type: none">Implemented smart autocorrect feature, which compares typed input to a container of correct words, determines degree of similarity, and determines whether to replace the inputSet 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 <ul style="list-style-type: none">Constructed algorithm to compute a needed final exam score based off of a user's desired class gradeTailored to accomodate grade systems where final is not in a seperate category (Unlike RogerHub's)	
ACTIVITIES	UC Berkeley Open Computing Facility (OCF) <i>Staff Member</i> <ul style="list-style-type: none">Contributed to codebase of ocfweb, the OCF web page, which handles password resets, account creation, dynamic lab usage statistics, and more Catalyst for Success <i>Treasurer</i> <ul style="list-style-type: none">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	Berkeley, CA <i>Sep. 2019 – Present</i> San Diego, CA <i>Sep. 2017 – Aug. 2019</i>
EXPERIENCE	Gateways Summer School <i>Teaching Aide</i> <ul style="list-style-type: none">Aided Architecture & Engineering teacher with giving lessons and mentoring studentsGuided 30 students on their projects and supervised them during break, learning, and work times Online Clothing Page <i>Self Employed</i> <ul style="list-style-type: none">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	San Diego, CA <i>Jul. 2018 – Aug. 2018</i> San Diego, CA <i>Jan. 2018 – May 2019</i>
OTHER	Awards <ul style="list-style-type: none">CalHacks 2019 BlackRock API Prize WinnerIntuit Scholarship Program + George A. Hansen Computer Science ScholarSouthern California Developmental Soccer League Div. 1 Champion	