

RICHARD S. ZHU

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EDUCATION	University of California, Berkeley B.A. Computer Science <i>Relevant Coursework:</i> 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> <ul style="list-style-type: none">Robust program that visualizes the diversity of an investment portfolio given any security attributeLeveraged BlackRock API to compile, sort, and categorize attribute data for a inputted list of securitiesIntegrated 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) <ul style="list-style-type: none">An improved remake of the classic video game Bomberman that can be played on modern devicesFully 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) <ul style="list-style-type: none">Interactive typing program which calculates typing speed and accuracy with every keystrokeImplemented 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) <ul style="list-style-type: none">Final grade calculator script that takes weighted categories and point totals into considerationFormulated 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 George A. Hansen Computer Science ScholarSouthern California Developmental Soccer League Div. 1 Champion	