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EDUCATION

University of California, Berkeley   **Expected Graduation:** May 2023
B.A. Computer Science
Relevant Coursework: Structure of Computer Programs, Linear Algebra & Circuits

SKILLS

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

PROJECTS

Investment Portfolio Diversity Visualization Tool (Python, MatPlotLib, Git)
★ <u>Winning Project of the CalHacks 2019 BlackRock API Prize</u>
- A tool that visualizes the diversity of an investment portfolio given any applicable security attribute
- Leveraged BlackRock API to compile, sort, and categorize security data from an array of stock symbols
- Integrated MatPlotLib to visualize calculated diversity data and to create a GUI for user portfolio input

Bomberman Remastered (Java, Git)
- An improved remake of the classic video game Bomberman that can be played on modern devices
- Fully recreated core gameplay functionalities, such as player action timers and random power-up drops
- Added an all-new local multiplayer mode, including dynamic player vs. player gameplay
- Utilized the Java Swing toolkit to design game menus and update graphical textures

Scheme Language Interpreter (Python)
- An interpreter for the Scheme programming language (a dialect of Lisp), built using Python
- Implemented environments, lexical and dynamic scoping, exceptions, macros, special forms, and more
- Ensured correct recursive evaluation procedures for call expressions, special forms, and primitives

Personal Website (HTML, CSS, JavaScript)
- A personal website created from the ground up, built with the Bootstrap framework
- Hosted page files remotely on UC Berkeley Open Computing Facility servers, via SSH File Transfer

Smart Typing Practice Program (Python)
- An interactive typing program that calculates typing speed and accuracy with every keystroke
- Built smart autocorrect feature that determines similarity between input and a base word

EXPERIENCE

Gateways Summer School   San Diego, CA
Teaching Aide   Jul. 2018 — Aug. 2018
- Aided Architecture & Engineering teacher with giving lessons and explaining provided examples
- 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 online
- Completed over 85 transactions, totalling a revenue of $2,237.35

ACTIVITIES

Catalyst for Success   San Diego, CA
Treasurer, Senior Technology Mentor   Sep. 2017 — Aug. 2019
- Taught programming and circuitry at the library to over 200 students (Python, Javascript, Arduino)
- Worked with library officials to organize regular weekly workshops and week-long summer camps

AWARDS

CalHacks 2019 — BlackRock API Prize Winner   *Oct. 2019*
Intuit Scholarship Program — Computer Science Scholar   *Apr. 2019*
Intuit George A. Hansen Program — Computer Science Scholar   *Apr. 2019*
Southern California Developmental Soccer League — Div. 1 Champion   *Dec. 2018*