

RICHARD ZHU

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EDUCATION

University of California, Berkeley
B.A Computer Science

Graduation: May 2022
GPA: 3.94

EXPERIENCE

UC Berkeley Department of Anthropology
Software Developer

February 2020 — May 2020
Berkeley, CA

- Developed an image auto-processing pipeline in Python, used on 151,173 manuscript scans
- Optimized text legibility by dewarping, deskewing, and binarizing image scans with OpenCV
- Extracted text data from selected documents via OCR, utilizing Google Cloud's Vision API

UC Berkeley Department of EECS
Course Tutor

May 2020 — Present
Berkeley, CA

- Led 6 weekly group tutoring sections for students in CS 61A (Intro to Programming)
- Answered conceptual questions and assisted students with debugging during office hours
- Graded student projects for correctness and proper Python programming style

California PATH
Research Assistant

October 2019 — January 2020
Berkeley, CA

- Evaluated potential safety impacts of a Caltrans-proposed freeway emergency alert system
- Wrote Python scripts to sync sensor data collected from driving simulation experiments

PROJECTS

Investment Portfolio Diversity Visualizer

Python

- Won the BlackRock API Prize at Cal Hacks 6.0, the largest collegiate hackathon in the world
- Built a tool to help diversify investment portfolios based on a given security data attribute
- Categorized and displayed stock market data using BlackRock's Aladdin API and Matplotlib

Bomberman Remastered

Java

- Created a multiplayer version of the game Bomberman that runs on modern operating systems
- Utilized the Java Swing toolkit to design menus, handle controls, and execute game events

Personal Website (ocf.io/rszhu)

HTML, CSS, JavaScript

- Designed and built a personal site from scratch, utilizing the Bootstrap front end framework
- Ensured font and layout compatibility for any operating system, display size, or web browser

AWARDS

Winner, Cal Hacks 6.0 BlackRock API Prize

October 2019

Winner, Intuit George A. Hansen Computer Science Scholarship

April 2019

Winner, Intuit Academic Scholarship

April 2019

SKILLS

Python, Java, C, C++, SQL, HTML, CSS, JavaScript, Git, Unix, Bootstrap, NumPy