

RICHARD ZHU

✉ rszhu@berkeley.edu
☎ 858-371-8838
📍 Berkeley, CA

in [linkedin.com/in/rszhu](https://www.linkedin.com/in/rszhu)
🐙 github.com/richardszhu
🌐 ocf.io/rszhu

EDUCATION **University of California, Berkeley**
B.A. Computer Science

Graduation May 2022
GPA 3.94

EXPERIENCE **UC Berkeley Department of Anthropology**

Feb. 2020 — May 2020

Software Developer

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

May 2020 — Present

Course Tutor

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 (Partners for Advanced Transportation Technology)

Oct. 2019 — Jan. 2020

Research Assistant

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**

github.com/richardszhu/BR-pdv

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

github.com/richardszhu/Bomberman

Java

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

Gitlet

Private Repository

Java

- Constructed a working version control system that replicates the core functionality of Git
- Implemented features such as file staging, commits, branching, merging, tracking status, etc.

Personal Website

github.com/richardszhu/website

JavaScript, HTML, CSS

- 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

ACTIVITIES **Computer Science Mentors**

Aug. 2020 — Present

Content Writer

Berkeley, CA

- Wrote practice problems and created review material for students in CS 61B (Data Structures)

UC Berkeley Department of EECS

Jan. 2020 — Aug. 2020

Academic Intern

Berkeley, CA

- Assisted students with completing lab programming assignments in CS 61A and CS 61B

AWARDS

Winner, Cal Hacks 6.0 BlackRock API Prize

Oct. 2019

Winner, Intuit George A. Hansen Computer Science Scholarship

Apr. 2019

Winner, Intuit Academic Scholarship

Apr. 2019

SKILLS

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