# RICHARD ZHU

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#### **EDUCATION**

University of California, Berkeley

B.A Computer Science GPA: 3.94

#### EXPERIENCE

### UC Berkeley Department of Anthropology

February 2020 — May 2020

Graduation: May 2022

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

October 2019 — January 2020

Berkeley, CA

Research Assistant

- 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**