

RICHARD ZHU

rszhu@berkeley.edu | 858-371-8838 | linkedin.com/in/rszhu

EDUCATION

University of California, Berkeley
B.A. Computer Science

Graduation May 2023
GPA 3.94

EXPERIENCE

Databricks

Software Engineering Intern

May 2021 – Present
San Francisco, CA

- Working on the application infrastructure team, which owns internal microservices architecture
- Migrated service load tests to an asynchronous HTTP client, increasing request throughput by 2x
- Setting up a database and dashboard web app for engineers to review performance test results

UC Berkeley Department of EECS

Undergraduate Student Instructor

January 2021 – May 2021
Berkeley, CA

- Led lab and discussion sections of 40 students for CS 170: Algorithms and CS 61A: Intro to CS
- Answered conceptual questions and guided students with debugging projects during office hours
- Managed 2 academic interns, providing pedagogy mentorship and instruction in tutoring sections

Hearst Museum of Anthropology

Research Assistant

February 2020 – May 2020
Berkeley, CA

- Developed an automated image processing pipeline in Python, used on 151,173 manuscript scans
- Optimized legibility and extracted text data via OCR, using OpenCV and Google Cloud's Vision API

PROJECTS

Investment Portfolio Diversity Visualizer | Python

github.com/richardszhu/br-pdv

- 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, utilizing BlackRock's Aladdin API and Matplotlib

Cryptographic File Drive | Go

Private Repository

- Designed a secure file system that supports creating, editing, and sharing files between users
- Ensured confidentiality of file contents with the AES cipher block chaining encryption scheme

ACTIVITIES

Democratic Education at Cal, Teaching Assistant (Algorithmic Thinking)
Computer Science Mentors, Content Writer (Data Structures)

February 2021 – May 2021
August 2020 – December 2020

AWARDS

Upsilon Pi Epsilon, Computer Science Honors
Intuit, George Hansen Computer Science Scholarship

March 2021
April 2019

SKILLS

Languages: Python, Java, Scala, Go, C, C++, SQL, Jsonnet, HTML

Tools: Git, Kubernetes, Docker, Jenkins, Bazel, Bootstrap