

RICHARD ZHU

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EDUCATION

University of California, Berkeley
B.A. Computer Science

Graduation May 2023
GPA 3.94

EXPERIENCE

Databricks

Software Engineering Intern

May 2021 – August 2021
San Francisco, CA

- Deployed internal app to visualize and manage benchmarks for detecting performance regressions
- Migrated load tests to use the Armeria async HTTP Client, increasing request throughput by 2.5x
- Built pipeline to automate test runs, take performance metrics, and store results in an AWS RDS

UC Berkeley Department of EECS

Undergraduate Student Instructor

January 2021 – Present
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)

February 2021 – May 2021

Computer Science Mentors, Content Writer (Data Structures)

August 2020 – December 2020

AWARDS

Neo, Scholar

September 2021

Upsilon Pi Epsilon, Computer Science Honors

March 2021

Intuit, George Hansen Computer Science Scholarship

April 2019

SKILLS

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

Tools: Git, Kubernetes, Docker, Angular, MySQL, AWS, Jenkins, Spark, Armeria, Bazel