

RICHARD ZHU

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EDUCATION

University of California, Berkeley
B.A. Computer Science

Graduation May 2023
GPA 3.85

EXPERIENCE

Ramp
Software Engineering Intern (Incoming)

Sept. 2022 – Dec. 2022
New York, NY

Citadel
Quantitative Development Intern

Jun. 2022 – Aug. 2022
New York, NY

- Simulated 14B USD daily in allocations of trading engine executions, in refactor of backtest pipeline
- Reduced monthly backtest runtime by 4x, by parallelizing computations across 3800 stocks on GCP
- Constructed factor portfolios with 2100 stocks, by optimizing tracking error to theoretical risk models

Nuro
Software Engineering Intern

Feb. 2022 – May 2022
Mountain View, CA

- Provided 2x improved fidelity into teleoperational health, via an overhaul of health status reporting
- Proxied 3000+ delivery update messages per day from robots to teleoperation console frontends
- Developed internal prototype for modules to subscribe to and mock GCP pub/sub topics in C++

Databricks
Software Engineering Intern

May 2021 – Aug. 2021
San Francisco, CA

- Deployed internal app to visualize and manage benchmarks for detecting performance regressions
- Increased load test throughput by 2.5x, by migrating requests to the Armeria async HTTP client
- Built pipeline to automate test runs, take performance metrics, and store results in an AWS RDS

University of California, Berkeley
Undergraduate Student Instructor

Jan. 2021 – Dec. 2021
Berkeley, CA

- Led lab and discussion sections of 50 students for CS 170: Algorithms, CS 61A: Intro to CS
- Guided students with debugging projects and answered conceptual questions in office hours
- Managed 2 academic interns, providing pedagogy mentorship and instruction in tutoring sections

PROJECTS

Investment Portfolio Diversity Visualizer | *Python*

github.com/richardszhu/br-pdv

- Won the BlackRock API Prize at Cal Hacks 2019, the largest collegiate hackathon in the world
- Showcased app to help diversify investment portfolios, utilizing BlackRock's Aladdin API

AWARDS

Neo, Scholar

Sept. 2021

Upsilon Pi Epsilon, Computer Science Honors

Mar. 2021

Intuit, Hansen Computer Science Scholarship

Apr. 2019

SKILLS

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

Tools: Git, Kubernetes, AWS, GCP, Pandas, Bazel, Docker, Angular, Jenkins, Spark