RICHARD ZHU

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

EXPERIENCE

Quadrillion Labs   Feb. 2026 – Present
Member of Technical Staff   *New York, NY*
- Building Qualia, an AI agent for machine learning workflows, quantitative research, and data science
- Joined as engineer #3. Backed by Conviction and Audacious Ventures, see quadrillion.io

Citadel   Aug. 2023 – Jan. 2026
Quantitative Developer   *New York, NY*
- Enabled research volume to scale by 25x, by building a GKE-native job compute platform with elastic scaling, containerized code deployments, and 4x lower cost per job
- Productionized analyst performance evaluation pipeline, improving runtime by 20x, and exposing an API consumed downstream for 60B+ USD of capital allocation and analyst promotion decisions
- Spearheaded migration of 15000+ research jobs to run on cloud compute, driving rollout as an embedded developer within QR teams across the equities businesses
- Moved 70+ TB of research caches to GCS, by integrating cloud-native I/O into storage tooling
- Reduced risk model generation runtime by 15%, by parallelizing cache logic in compute frameworks
- Expanded research capabilities for 200+ researchers and engineers, by adding in-platform support for ML modeling, GPU compute, and AI coding on GKE-based dev machines

Ramp   Sept. 2022 – Dec. 2022
Software Engineering Intern   *New York, NY*
- Launched spend program, spend limit, and accounting functionalities on the Ramp developer API

Citadel   Jun. 2022 – Aug. 2022
Software Engineering Intern   *New York, NY*
- Built an optimizer for tradable factor portfolio construction, applied in 5B+ USD hedging strategies

Nuro   Feb. 2022 – May 2022
Software Engineering Intern   *Mountain View, CA*
- Overhauled health status reporting from vehicles to teleoperational consoles with 2x improved fidelity

Databricks   May 2021 – Aug. 2021
Software Engineering Intern   *San Francisco, CA*
- Deployed app to manage benchmarks for detecting performance regressions in internal services

University of California, Berkeley   Jan. 2021 – Dec. 2021
Teaching Asssistant   *Berkeley, CA*
- Led labs, discussions, and office hours of 50+ students for CS 170 (Algorithms), CS 61A (Intro CS)

EDUCATION

University of California, Berkeley   Aug. 2019 – May 2023
B.A. Computer Science   GPA 3.9
Awards: Neo Scholar, Upsilon Pi Epsilon

SKILLS

Languages: Python, Go, Java, C++, C, Scala, JavaScript, TypeScript, SQL
Tools: Kubernetes, Docker, AWS, GCP, GraphQL, Terraform, Bazel, Git, Pandas, PyArrow, PostgreSQL, SQLAlchemy, Spark, React