

Joshua Zhou

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EDUCATION

Columbia University

New York, NY

BS in Computer Science, Minor in Applied Mathematics

September 2020 – May 2024

- GPA: 4.11/4.0
- Coursework: Prog. Languages & Translators, AI, Databases, Fund. of Computer Systems, CS Theory, Advanced Programming, Data Structures
- Activities: Teaching Assistant (Databases), Science Review (Executive Board), Application Development Initiative, Tennis, Rock Climbing

WORK EXPERIENCE

Coinbase

Remote

Software Engineering Intern, Ledger

May 2022 – September 2022

- Implemented Factory tooling for background job management by provisioning development and production resources in AWS
- Converted Postgres database cleanup code to Faktory cron job for greater scalability
- Created design document based on issues identified in ledger workflow and presented plan to other engineers
- Wrote handler logic for new gRPC endpoint to allow other services to run ledger jobs
- Built UI that called endpoint to enable ledger team to quickly pull crypto dust between accounts (previous method involved creating a PR, getting it merged, and deploying)

Perfect Corp

Remote

Data Consultant Intern

May 2021 – May 2022

- Developed software productivity tools for backend CMS system to facilitate uploading and maintenance of hundreds of SKUs daily
- Oversaw product data for over 20 important brand partners, including Estee Lauder and Shiseido
- Coded scripts that sped up console actions and introduced them to product and technical teams

RESEARCH EXPERIENCE

Physical analysis and optimization of electromagnetic coilgun launch systems

San Jose, CA

Independent Researcher

July 2018 – August 2019

- Conducted independent research on optimizing electromagnetic coilguns by utilizing physics-based mathematical models to simulate thousands of combinations of parameters
- Published research paper in American Journal of Physics, a peer-reviewed publication
- Recognized as Regeneron STS Scholar (top 300 out of 2,000 projects nationwide)

SKILLS, HONORS, & INTERESTS

Skills: Go, SQL, Mongo, Java, Python, C, Wolfram Mathematica, AWS, Git, TDD, Tutoring

Honors: Regeneron STS Scholar, AIME Qualifier, USAPhO Semifinalist

Interests: Software Engineering, Data Analysis, Application Development, STEM Education