Ivan Echevarria

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Washington, D.C.

Experience

Robinhood

Software Engineer – Traffic Infrastructure   Jan 2023 – Present

- Built and operated Robinhood's WebSocket infra to reduce end-to-end order latency by >50% for Robinhood Legend; wrote, benchmarked performance-critical code and designed routing logic
- Standardized LB infra by migrating X million QPS from legacy Nginx-on-EC2 LBs to Envoy-on-k8s without incident by writing runbooks, automating wherever possible, and comprehensively testing
- Designed infra for major product launches including Event Contracts and Joint Accounts
- Averted severe customer impact and debugged distributed systems during incident response

Software Engineer – Equities Product   Sep 2021 – Jan 2023

- Backend lead for adding actual market orders, a substantial and ambiguous overhaul of the order path; wrangled with some of the oldest code in the firm and charted a path forward
- Consolidated client-specific order validation implementations into centralized backend system
- Built backend systems for Partner Stock Program and supported public launch; did things that don't scale like tracking down and personally fixing every error logged in prod

Ladder Life – Software Engineer   Apr 2021 – Aug 2021

- Updated underwriting rules in Clojure / Datomic-based underwriting engine

SetSail (acq. by ZoomInfo) – Data Scientist / Engineer   Sep 2018 – Feb 2021

- Employee 6 at seed-stage startup; late nights, zero to one moments, lasting friendships :)
- Helped land $Xm ARR customer, largest at the time, by scaling systems, eliminating bottlenecks
- Worked directly with Chief Product Officer and met with customers to develop new offerings
- Enhanced team effectiveness by mentoring junior data scientists, promoting best practices including linting and testing, and building easy-to-use internal libraries

Pre-2018 experience on Linkedin

Languages

Python - Go - SQL - C - JavaScript - HTML/CSS

Technologies

Envoy - Kubernetes - gRPC - AWS - Git - Linux

Projects

echevarria.io blog	posts on front page of HN; 50,000+ visitors from organic search (link)
Lego Face VAE	neural network that generates images of Lego faces (write-up, GitHub)

More projects on my personal site and on GitHub

Education

William & Mary – graduated 2018 summa cum laude

B.S. in Computer Science with a minor in Applied Mathematics

Honors: Phi Beta Kappa, Bob & Debbie Noonan CS Department Award, James Monroe Scholar

Courses

The Recurse Center – Spring 1 2021

Bradfield School of Computer Science – Computer Science Intensive 2022