

PROGRAMMING SKILLS

LANGUAGES – Python, Typescript, Golang, Haskell, Rust

TECH/FRAMEWORKS – Kubernetes, Docker, *Nix, React/Redux, SQL

EXPERIENCE

Setter

Full-Stack Developer Intern

Rust, Typescript

Jan 2019 - April 2019

- Rewrote critical parts of the Node backend in Rust, e.g. transactional email handling, realtime quote editor and service payment endpoints.
- Helped implement CI/CD (Travis, Docker) for microservices and investigate moving from GCP to AWS.

Got It

Software Engineering Intern

Python

May 2018 - August 2018

- Worked on the companies routing algorithms, the most technically involved part of the companies stack. Extended the system so we could perform real-time matching between professionals for mentoring.
- Created API's and real-time channels for the first mobile app used by our professionals. In particular wrote the backend service to showcase real-time demand and analytics to our pro's.

Quantcast

Software Engineering Intern

Python

March 2017 - July 2017

- Optimized performance of a real-time bidding configuration ETL (Extract, Transform, Load) pipeline. Cut down CPU time by $\sim 30\%$.
 - * Abstracted complex business logic as a graph and then implemented efficient graph traversal algorithms to perform the original business logic.
 - * Used indirection to reduce memory usage and number of sorts needed to shard domains.

ADDITIONAL COURSEWORK

Real Analysis, Convexity and Optimization

Harvard Extension School

Upper-division pure math course focused on optimization problems with convex sets, normed infinite-dimensional vector spaces, and convex functionals.

Learning From Data

Caltech Telecourse

Machine Learning Course: github.com/zhiyanfoo/caltech-machine-learning/

I've been taking online college courses in addition to school or work since I was 16. It's how I started programming. Complete list of additional coursework done can be found at zhiyanfoo.github.io/learning/.

PROJECTS

Zen: An alternative to python's virtualenvwrapper that I personally use. <https://github.com/zhiyanfoo/zen>

EXTRACURRICULARS

Haskell Club Founder. Soccer. Basketball. Dungeons and Dragons.

EDUCATION

University of Waterloo

Candidate for Bachelors of Mathematics (Pure Math)

Waterloo, CA

August 2017 – Present