

Oustan Ding

oustanding.me

✉ oustan10@gmail.com

🌐 linkedin.com/in/oustanding

🐙 github.com/oustanding

Skills

Languages: Python, C++, TypeScript, Java, Go, JavaScript, SQL

Technologies: GraphQL, React, PostgreSQL, MongoDB, Redis, RabbitMQ, Kafka, Node.js, AWS, Docker

Education

University of Waterloo - Bachelor of Software Engineering, Honors

Sep 2019 - Apr 2024

- 94% cumulative average (3.98/4 GPA), 5x Dean's Honors List

Experience

Bloomberg - Software Engineer Intern

New York, NY | May 2022 - Present

Python, C++, SQL, Redis, RabbitMQ, Kafka, Humio

- Spearheaded system to revamp ETF primary market trading platform (BSKT), expediting **fixed income market value calculations by 78%** through a Python service and distributed Redis cache
- Built scalable data pipelines using RabbitMQ and Kafka to capture periodic price snapshots and update cache records for **94,000** securities up to 8 times per day
- Optimized calculations for large ETF baskets through parallelization, improving throughput by **5x**

Wish - Software Engineer Intern, Logistics

Seattle, WA | Sep 2021 - Dec 2021

TypeScript, GraphQL, Next.js, Lerna, Webpack

- Significantly reduced TypeScript web app rebuild times from **5 minutes to 10 seconds** by introducing a monorepo-based workflow for building and testing components outside of monolithic codebase
- Fully recovered lost sales revenue during third-party service outages through developing a configurable payment library with automatic fallback to Stripe API

Wish - Software Engineer Intern, Marketplace

San Francisco, CA | Jan 2021 - Apr 2021

Python, TypeScript, GraphQL, React, MongoDB

- Improved load times by **49%** for a global user management dashboard through migration to GraphQL and React, with Memcached to speed up access control checks
- Saved engineers **4 hours/month** by creating asynchronous pipeline for registering new user permissions

OnCall Health - Full Stack Software Engineer Intern

Toronto, ON | May 2020 - Aug 2020

Python, JavaScript, Django, React, PostgreSQL

- Built a Django REST API to allow bulk appointment editing, **reducing clinics' manual work by 75%**
- Developed an accessible dashboard for 20,000+ patients to securely exchange forms with doctors

Projects

UW Blueprint - Technical Lead

- **Led a team of 10 developers and designers** to build open-source software for social good
- Scoped and executed engineering roadmap to develop a fully-integrated application processing system **generating \$88,000 revenue/year** for [Richmond Centre for Disability](#)

nestris - Real-time Classic Tetris

- Developed a self-sufficient [pixel analysis algorithm](#) to **identify upcoming piece sequences 4 times per second with 99% accuracy**, enabling automated, real-time game refereeing