Oustan Ding

oustanding.me

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Skills

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

Technologies: GraphQL, React, Next.js, Node.js, Django, PostgreSQL, MongoDB, AWS, Lerna, Docker

Education

University of Waterloo - Bachelor of Software Engineering, Honors   Sep 2019 - Apr 2024

- 94% cumulative average (3.99/4 GPA), 4x Dean's Honors List

Experience

Wish - Software Engineer Intern, Logistics   Seattle, WA | Sep 2021 - Dec 2021

- **Drove initiative to bootstrap Lerna monorepo** using React & Webpack for building and testing isolated components outside of monolithic codebase, improving developer efficiency
- Developed a configurable component with Braintree & Stripe APIs to **automate payment rerouting during outages**, recovering losses of up to 20% of normal GMV
- Reduced address data inconsistencies in shipping microservice and legacy app using Go & GraphQL
- Optimized serverless fulfillment web app with Next.js features, lowering build times by 35%

Wish - Software Engineer Intern, Marketplace   San Francisco, CA | Jan 2021 - Apr 2021

- Rebuilt dashboard and APIs **managing 2,700+ internal users** using Python, TypeScript, and React, **decreasing page load times by 49%**
- Improved latency of authorization checks by caching roles/permissions metadata in Memcached
- Created pipeline for updating and monitoring user permissions, **saving engineers 4 hours/month**

UW Blueprint - Technical Lead   Waterloo, ON | Jan 2021 - Present

- **Led and mentored a team of 10 developers and designers** to build a system for an NPO to process 2,000+ accessible parking permit applications **generating $88,000 revenue/year**
- Scoped and executed engineering roadmap using Next.js, GraphQL, PostgreSQL, and AWS

OnCall Health - Full Stack Software Engineer Intern   Toronto, ON | May 2020 - Aug 2020

- Implemented a Django REST API with full unit test coverage to allow bulk editing of recurring appointments, **reducing clinics' manual work by 75%**
- Developed a WAI-ARIA accessible interface for 20,000+ patients to exchange forms with doctors

Ontario Ministry of Health - Research Assistant   Toronto, ON | Jul 2019 - Aug 2019

- Streamlined identification of healthcare-related Tweets through web app built using Flask & SQL

Projects

nestris // *Real-time multiplayer Classic Tetris*   Jul 2020 - Sep 2020

- 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