

Tony Zhao

+1-(778)-955-6328
siyuan.zhao@uwaterloo.ca

in /tonyzhao2001
/tawnyzhao

Education

University of Waterloo

Bachelor of Software Engineering, Honors

– Cumulative Average: 91%, 4x Dean's Honors List

Waterloo

Sept. 2019 – Present

Skills

Languages JavaScript/TypeScript, Python, C, C++, Java, Scala, SQL, PHP, Ruby

Technologies & Tools React, Redux, Node.js, Express, GraphQL, Laravel, Rails, PostgreSQL, MongoDB, Tensorflow, Kubernetes, AWS, Firebase, Azure, Heroku, Docker, Git, Bash

Experience

Applyboard

Software Engineer Intern

Waterloo

Sept. 2021 – Present

– Building AuthN/AuthZ systems and integrating monitoring tools using Ruby, Terraform, and Kubernetes

LCBO|next

Full Stack Engineer Intern

Waterloo

Jan. 2021 – May 2021

- Developed microservice backends using Node.js and TypeScript exposing REST APIs consumed by **6 clients**
- Added features to price tag generator app in React and Ionic Angular saving **\$50,000 in costs/year**
- Reduced load times by **80%** on an application used by **100+ users** through optimizing SQL queries
- Created CI/CD pipelines to build Docker images and deploy previews on Azure AKS and App Services

Condos.ca

Full Stack Developer Intern

Toronto

May. 2020 – Sept. 2020

- Implemented end-to-end lead prediction model using Tensorflow Boosted Trees with AWS SageMaker, improving accuracy of realtor-to-client matching algorithm by **30%**
- Optimized load times of three websites by **15%** using React code splitting and server-side rendering
- Developed various data scraping features for geographic information with PHP Laravel/MySQL backend

Projects

UW Blueprint

Technical Lead

Waterloo

Sept. 2021 – Present

- Leading and mentoring a team of 8 developers, building a no-code educational content editor for [HeadsUpGuys](#), a men's mental health non-profit organization serving **10,000+ users/month**

Software Developer

Sept. 2020 – Sept. 2021

- Built a platform for tracking fundraising campaigns for [Raising the Roof](#) using React with Redux
- Created GraphQL API using Express, Sequelize, and Apollo to track purchases on online storefronts

ohana

Collaborative code editor and whiteboard

/ohana

[itsohana.com](#)

- Managed rooms using Node.js Express backend with MongoDB supporting **100+** concurrent users
- Implemented realtime editing and conflict resolution using Firebase RTDB with Operational Transform
- Synchronized whiteboard across multiple clients using Socket.io to display on React frontend