Tony Zhao

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Education

University of Waterloo   Waterloo
Bachelor of Software Engineering, Honors   *Sept. 2019 – Apr. 2023*
- Cumulative Average: **93%**, 4x Dean's Honors List

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, Terraform, AWS, Firebase, Azure, Heroku, Docker, Git, Bash

Experience

ApplyBoard   Waterloo
Software Engineer Intern   *Sept. 2021 – Present*
- Building AuthN/AuthZ systems and integrating monitoring tools using Ruby, Terraform, and Kubernetes
- Created Node.js auth service implementing SCIM 2.0 between Okta and Rails server managing **250k+ users**
- Integrated New Relic monitoring with common Ruby and Node.js logging libraries serving **40M logs/day**

LCBO|next   Waterloo
Full Stack Engineer Intern   *Jan. 2021 – May 2021*
- Added features to price tag generator app in React and Ionic Angular saving **$50,000 in costs/year**
- Developed microservice backends using Node.js and TypeScript exposing REST APIs consumed by **6 clients**
- Reduced load times by **80%** on an application used by **100+ users** through optimizing SQL queries
- Created CI/CD pipelines to build and deploy previews with 99% uptime on Azure AKS and App Services

Condos.ca   Toronto
Full Stack Developer Intern   *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   Waterloo
Technical Lead   *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**
- Implemented static site generation for end users supported by serverless functions in Next.js

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   ⌗ /ohana
Collaborative code editor and whiteboard   *itsohana.com*
- Managed rooms using Node.js Express backend with MongoDB supporting **100+** concurrent users
- Synchronized whiteboard across multiple clients using Socket.io to display on React frontend