

Tony Zhao

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/tawnyzhao

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Education

University of Waterloo

Bachelor of Software Engineering, Honors

Waterloo

Sept. 2019 – Apr. 2024

- Cumulative Average: **92%**, 3.9/4.0 GPA, 6x Dean's Honors List

Skills

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

Technologies React, Node.js, Express, GraphQL, Laravel, Rails, PostgreSQL, MongoDB, Tensorflow, Kubernetes, Envoy, Terraform, AWS, Prometheus, Firebase, Azure, Heroku, Docker, Kafka, Elasticsearch

Experience

Jane Street

Software Engineer Intern

New York

Jun. 2023 - Sep. 2023

- Created centralized logging library writing into Kafka and Elasticsearch handling **10+ GB of logs/s**
- Developed highly available service to dynamically configure logging clients based on process information
- Architected autoscaler for Kafka clusters by polling broker metrics from Prometheus and provisioning new topics to enable parallelism in downstream consumers, reducing ingestion queuing by **90%**
- Created web application to query financial and legal documents using LLMs and vector embedding search

Databricks

Software Engineer Intern

San Francisco

Jan. 2023 - May. 2023

- Created service to dynamically configure **1200+ routes** for API ingress proxy using Kubernetes ConfigMaps, xDS protocol, and Envoy
- Designed CI/CD job to detect routing misconfigurations by computing intersections of regular expressions
- Implemented route configuration regression suite parameterized over **3 clouds** and **20+ regions**

Cloudflare

Software Engineer Intern

San Francisco

May. 2022 - Sep. 2022

- Created Go microservice for [publishing OpenAPI schemas](#) for **450+ public API endpoints** to [GitHub](#)
- Integrated schemas with testing services and worker processes using Kafka and protobuf to monitor production API response correctness and validate schemas across **35 teams**
- Developed CI/CD Docker job to convert schemas from JSON Schema and migrate teams to the new service

ApplyBoard

Software Engineer Intern

Kitchener

Sep. 2021 – Jan. 2022

- Migrated legacy authentication system to Okta transitioning **250k+ users** using Ruby and Terraform
- Implemented user data syncing between legacy and new systems during migration implementing SCIM 2.0

LCBO|next

Full Stack Engineer Intern

Waterloo

Jan. 2021 – May 2021

- Added features to price tag generator app in React and Ionic Angular saving **\$50,000 in costs/year**
- Improved performance of internal claims portal for stores, reducing initial load times by **40%**

Condos.ca

Full Stack Developer Intern

Toronto

May. 2020 – Sep. 2020

- Implemented end-to-end lead prediction model using boosted decision trees, 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