

Stephen Guo

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🌐 Website

🐙 GitHub

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EDUCATION

University of Toronto

Toronto, ON

HBSc. in Computer Science Specialist

Sept 2019 - April 2024

cGPA: 3.57 / 4.0

EXPERIENCE

BlueCat Networks

Toronto, ON

Software Engineer Co-op

May 2021 - April 2022

- Deployed and configured **Kubernetes** clusters using **Helm**, **Helmfile**, **Makefile**, and **GitLab CI**, resulting in automated and safe deployments to production
- Created and demoed a **Python** query microservice using **Trino**, **SQL**, **Docker**, and **Apache Airflow**, producing daily reports from dozens of terabytes of data within 5 minutes
- Wrote horizontal pod autoscalers for a Helm chart, and created Kubernetes node groups with vertical pod autoscaling, increasing our service's max load by over 9×
- Configured and conducted code reviews of **AWS EKS**, **IAM roles**, and **VPC**, using **Terraform** and **Terragrunt**, reducing time spent in secure role management by 94%
- Documented a full step-by-step guide for **Prometheus** alertmanager on Confluence, resulting in response time speedups for error reports by 5×

PROJECTS

Alkitab

🐙 GitHub 📺 Demo

- Developed an e-book sharing platform in a team of 2 using **Svelte**, **Bootstrap**, **TypeScript**, **MongoDB**, **Express.js**, and sockets
- Deployed to the Linode cloud service using **Docker**, **Kubernetes**, **Helm**, and **Pulumi**, along with **NGINX** Ingress Controller for HTTPs, reducing deployment times by 85%

Rust Recipe Gallery

🐙 GitHub

- Created a full stack recipe sharing application fully in **Rust** with **PostgreSQL**, **Tailwind CSS**, and server side rendering
- Fully end-to-end tested using **Playwright**, increasing bug detection rates by 50%

ShopLazy

🐙 GitHub 📺 Demo

- Collaborated with a team of four to create a cross-platform grocery delivery and pick-up application during the Hack the North 2021 hackathon with **Flutter**, **Dart**, and **Firestore**
- Discussed designs and created a blueprint of the app with the team, resulting in a simple-to-use and intuitive user interface

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Java, Rust, C, Bash/Shell, SQL

Libraries/Frameworks: React, Next.js, Flutter, Svelte, Bootstrap, Tailwind CSS

Other: Kubernetes, Helm, Terraform, Pulumi, AWS, GitLab CI, Docker, Unix/Linux, Git, Vim