Stephen Guo

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☎ (437) 231-1263 GitHub LinkedIn

EDUCATION

University of Toronto   **Toronto, ON**
HBSc. in Computer Science Specialist   Sept 2019 - April 2024
cGPA: 3.55 / 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 $9\times$
- 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 $5\times$

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 **Firebase**
- 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