Stephen Guo

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📱 +1 (437) 231-1263   🌐 Website   Ⓖ GitHub   in LinkedIn

EDUCATION

University of Toronto   **Toronto, ON**

Honours Bachelor of Science, Computer Science   Sept 2019 - April 2024

cGPA: 3.57 / 4.0

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

EXPERIENCE

BlueCat Networks   **Toronto, ON**

Software Engineer Co-op   May 2021 - April 2022

- Deployed and configured **Kubernetes** clusters on **AWS** using **Helm**, **Terraform**, and **GitLab CI**, resulting in automated, scalable, and safe deployments to production
- Created and demoed a **Python** query microservice using **SQL**, **Docker**, and **Apache Airflow**, producing daily reports from dozens of terabytes of data within 5 minutes
- Wrote Kubernetes horizontal and vertical pod autoscalers, increasing max traffic by over 9 times
- Developed REST APIs, integration tests, and end-to-end tests for a **Java** codebase with **Gradle** and **Jenkins**
- Configured **Prometheus** Alertmanager and **Grafana** dashboards, generating production logs and monitoring of errors to improve alert response times by 85%
- Merged 7 pull requests for highly requested features for the open source Trino Helm chart on GitHub, such as increasing security and scalability for the database

PROJECTS

Alkitab   Ⓖ GitHub   ▶ Demo

- Developed an e-book sharing platform with a partner using **Svelte**, **Bootstrap**, **TypeScript**, **MongoDB**, **Express.js**, with sockets for real-time text highlighting between users
- Deployed to the Linode cloud service using **Docker**, **Kubernetes**, **Helm**, and **Pulumi**, with **NGINX** for HTTPS

Rust Recipe Gallery   Ⓖ GitHub

- Created a highly performant and fault tolerant recipe sharing application fully in **Rust**, with **PostgreSQL**, and **Tailwind CSS**
- Implemented REST APIs, with full end-to-end test coverage using **Playwright**

ShopLazy   Ⓖ GitHub   ▶ Demo

- Collaborated with a team of four to create a grocery delivery and pick-up mobile application during the Hack the North 2021 hackathon using **Flutter**, with **Firebase** for user authentication