

# Stephen Guo

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## TECHNICAL SKILLS

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**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

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### BlueCat Networks

North York, 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

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### 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 fullstack 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

## EDUCATION

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### University of Toronto

Toronto, ON

HBSc. in Computer Science Specialist

September 2019 - April 2024

cGPA: 3.51 / 4.0