Stephen Guo

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EDUCATION

University of Toronto **Toronto, ON**
Honours Bachelor of Science, Computer Science September 2019 - April 2024
cGPA: 3.57 / 4.0

EXPERIENCE

Leap Softwares **Toronto, ON**
Full Stack Software Engineer October 2024 - Present
- Developed secure **GraphQL** endpoints with type-safety and validation, using **TypeScript**, **NestJS**, **PostgreSQL**, and **TypeORM**
- Implemented **Azure** Monitor alerts and health checks to Slack, using **Terraform**, **Rust**, and Websockets, decreasing service downtime by 95%
- Designed and built intuitive dashboards and forms using **Retool** and **Excalidraw**
- Wrote component tests using **Jest** and **GitHub Actions**, utilizing mocking to test complex systems

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

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

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Java, Go, Rust, C, Bash/Shell, SQL
Libraries/Frameworks: GraphQL, NestJS, TypeORM, Tailwind CSS
Other: Kubernetes, Helm, Terraform, AWS, Azure, GitLab CI, Docker, Unix/Linux, Git, Vim