

Eric Guo

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science and Statistics

Toronto, ON

Sept. 2021 – May 2026

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML, CSS, JQuery, NoSQL, TypeScript, Bash, React, Node.js

Frameworks: Next.js, Node.js, PyTest, React.js, JUnit, Tailwind, Pandas, Jest, FastAPI, PyTorch

Developer Tools: Git, Docker, AWS, Linux, Unix, Kubernetes, GCP, Jira, HELM, MongoDB

Skills: Data Structures & Algorithms, Cloud, Microservices, Large Scale Systems, Object Oriented Programming

EXPERIENCE

Machine Learning Software Engineer

May 2025 – Dec 2025

RBC Borealis

Toronto, Ontario

- Built production-ready **REST APIs** with **FastAPI/Starlette**, integrating **OAuth2.0** to serve ML embeddings in under 100ms at scale on **Kubernetes** and **GCP** optimizing API latency by scaling resources and pods
- Developed **CI/CD pipelines** in GitHub Actions, deploying microservices to **Openshift** clusters, leveraging **layering** and **caching** to reduce Docker image size by up to 20GB and build times by 15 minutes
- **Collaborated** w/ stakeholders to design & test **end-to-end Dagster ETL data** pipelines streaming TB-scale client data to **AWS S3**, transforming into **Apache Arrow** and **Parquet** files for efficient querying
- Conducted **load testing** and **unit testing** with **Postman** and **PyTest** writing **scalable, async** software
- Designed and implemented **well-documented** software components that became part of a **fully functional system**, ensuring production readiness through problem analysis and peer and mentor code reviews

Network Automation

Apr 2024 – Aug 2024

NOKIA Corp.

Ottawa, Ontario

- Developed a **YAML CI/CD pipeline** in **GitLab** to run unit tests and deploy product to **Kubernetes**
- **Achieved** a 97% test coverage by employing a test-driven development (TDD) approach using the **PyTest framework, unit-testing and Regex**
- Migrated **Docker** deployment of a company product to **Kubernetes via Rancher** using **HELM charts**, saving the company significant time by optimizing container orchestration

Network Automation

Apr 2023 – Aug 2023

NOKIA Corp.

Ottawa, ON

- Tested and troubleshooted Network Automation Platform (NAP) by simulating deployments in **Linux VM**
- Programmed a custom scripts using **Python w/ Pandas and Numpy** to handle client-specific configuration uploads, resulting in more streamlined and error-free automation
- Utilized **Postman** to test **RESTful API** functionality for uploading and retrieving configurations, ensuring seamless communication with **MongoDB**

Software Engineer Intern

May 2022 – Aug 2022

LUCLAI Inc.

Remote

- Migrated IoT data from NoSQL database, **MongoDB**, to **relational database PostgreSQL** using **Node.js, Mongoose, and Prisma** for scalability, improving database efficiency by 30%
- Developed and tested **RESTful APIs** using **JavaScript and Postman**, validating API workflows and ensuring system reliability

PROJECTS

Scriptorium | Node.js, Next.js, Typescript, Javascript, React

Sept. 2024 – Jan. 2025

- Developed a code execution website **Next.js** and **TypeScript**, featuring multi-language support, syntax highlighting, and secure execution with **Docker containers**.
- Built and tested backend **RESTful API** endpoints with **JWT authentication** and validated workflows with **Postman**, ensuring proper functionality across multiple endpoints - documented using SwaggerUI
- Implemented responsive frontend (UI/UX) features for mobile and cross-browser users using **React.js, HTML, CSS, and Tailwind** and React libraries
- Designed **relational SQL** database to store user info, blogs and templates data allowing for fast, scalable retrieval