

Eric Guo

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EDUCATION

University of Toronto

Bachelor of Science in Computer Science and Statistics

Toronto, ON

Sept. 2021 – Dec 2026

EXPERIENCE

Machine Learning Software Engineer

May 2025 – Present

RBC Borealis

Toronto, Ontario

- Built production-ready **REST APIs** with **FastAPI/Starlette**, integrating **OAuth2.0** authentication to serve ML embeddings in under 100ms at scale on **GCP** optimizing API latency by scaling resources
- Developed **CI/CD pipelines** in GitHub Actions, deploying microservices to **Kubernetes** clusters with **Docker**, scanning images for vulnerabilities, and leveraging **layering** to reduce image size by up to 20GB
- Collaborated** w/ ML Researchers and **learned** to design & test **Dagster ETL** pipelines streaming TB-scale client data to **AWS S3**, transforming into **Apache Arrow** and **Parquet** files for efficient querying with **DuckDB**
- Conducted **load testing** and **unit testing** with **Postman** and **PyTest** writing **scalable, high volume** software
- Contributing **PRs** and participating in frequent **code reviews** of a large code base receiving and providing feedback to peers, stakeholders and mentors

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

LUCIAI 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 featured libraries. Deployed website to cloud using **AWS**

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript (React), HTML, CSS, JQuery, R, NoSQL, TypeScript, Bash

Frameworks: Next.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 Infrastructure, Databases, Object Oriented Programming, Efficient Code, Performance Optimization, HTTP, OAuth