

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 **CI/CD pipelines** in **GitHub** deploying products to **Kubernetes** with **Docker**, scanning JFrog images and optimizing layers to save **10GB** in image space
- Built **REST API** w/ **FastAPI/Starlette**, evaluate **OAuth2.0** vs **mTLS** to serve embeddings <100ms on **GCP**
- Optimized API performance by **load testing** with **Postman**, scaling CPUs and streamlining response payloads
- Collaborated with **ML researchers** to develop **Python Dagster** pipelines streaming **terabytes** of client data to **Amazon S3** & Node in **Apache Arrow & Parquet**, enabling efficient **Postgres** querying with **DuckDB**
- Trained ML models in **PyTorch** on data pipelines running monthly utilizing **parallel processing and compute** for efficiency, running experiments using **SLURM** for resource allocation

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

LUCI.AI Inc.

Remote

- Migrated IoT data from **MongoDB to 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 | *UI, UX, Next.js, Node.js, Typescript, React, GitHub, Jest*

Sept. 2024 – Jan. 2025

- Developed a code execution platform with **Next.js** and **TypeScript**, featuring multi-language support, syntax highlighting, and secure execution with **Docker containers**.
- Built and tested **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, PyTorch, TensorFlow

Developer Tools: VSCode, Git, Docker, AWS, Windows, Linux, Unix, Kubernetes, Apache, HELM, GCP

Skills: Cloud, Object-Oriented Programming, Machine Learning, Data Structures & Algorithms, DevOps