

Eric Guo

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EDUCATION

University of Toronto

Bachelor of Science in Statistics, Minor in Computer Science

Toronto, ON

Sept. 2021 – May 2026

EXPERIENCE

Machine Learning Software Engineer

May 2025 – Present

RBC Borealis

Toronto, Ontario

- Developed **CI/CD pipelines** in **GitHub** to deploy multiple products to Openshift cluster using **Docker/Podman** and scan images for JFrog for safety - leverage layering to save **10GB** in Docker image space
- Implemented **OAuth2.0** in ATOM API used to serve embeddings in under 100ms w/ **FastAPI** & **Starlette**
- Building **Dagster** pipelines to move client data to **Amazon S3** & Node in a **PyArrow** and **Parquet** format to allow for efficient reading and **querying** with **DuckDB** in downstream applications

Network Automation

Apr 2024 – Aug 2024

NOKIA Corp.

Ottawa, Ontario

- Developed a **YAML CI/CD pipeline** in **GitLab** to run unit tests for template naming convention across three international repositories and deploy company 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 **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 – Present

- Designed and developed a code execution feature within a coding platform using **Next.js** and **Typescript**, enabling users to write & execute code with code highlighting online in multiple programming languages
- 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, SH, Bash

Frameworks: Next.js, PyTest, React.js, JUnit, Tailwind, Pandas, Jest, Vue.js

Developer Tools: VSCode, Git, Docker, AWS, Windows, Linux, Kubernetes, Confluence, Rancher

Skills: Web Development, Cloud, Data Analysis, Testing, Database, SOLID Principles, Data Structures & Algorithms

ADDITIONAL INFORMATION

Non-CS Experience: Physical Activity Facilitator(**Customer Service Job** - University of Toronto), Competitive Basketball 4 years, Member (University College Dragon Boat Club), Univeristy of Toronto Grappling Club