### Oliver Kwun-Morfitt

Toronto, ON | 647-323-8175 | oliverkwunmorfitt@gmail.com | LinkedIn | Github | Portfolio

### TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, Go, SQL, Typescript

Frameworks: React, Node.js, Next.js, Expess.js, React Native

Developer Tools: Git, Docker, PostgreSQL, MySQL, PyCharm, MongoDB, Firebase, Postman, Redis, Kafka, Github

Libraries: Pandas, NumPy, Matplotlib, TensorFlow, PyTorch, TailwindCSS, pytest, SQLAlchemy

## Experience

## Software Engineer - ML Infrastructure

September 2025 – Present

University of Toronto Machine Intelligence Student Team

Toronto, ON

• Built Go-based CLI tools enabling researchers to manage and monitor GPU compute jobs on Tenstorrent and AMD servers.

# Full-Stack Developer

May 2025 – Present

University of Toronto Climbing Club

Toronto, ON

- Collaborating in a 4-person dev team to design and deploy a scalable full-stack web application for the club's community.
- Developing responsive user interfaces with Next.js and TailwindCSS, enhancing usability across devices.

## Web Developer (SEO + UX Optimization)

September 2024 – Present

The Planning Partnership

Toronto. ON

- Maintained and enhanced the company's website, resulting in faster load times and improved user experience.
- Optimized on-page and technical SEO, boosting search engine rankings and increasing site traffic.

# Technical Writer - Applied Machine Learning

September 2024 – May 2025

University of Toronto Machine Intelligence Student Team

Toronto, ON

- Implemented machine learning algorithms in Python notebooks to explore predictive modeling techniques in trading applications.
- Published **research articles** on the practical uses of machine learning in finance, reaching students, faculty, and industry professionals.

#### Projects

Real-time Air Quality Forecaster | Python, Scikit-learn, Git, Kafka, Docker, React August

August 2025 – Present

- Designed an end-to-end **air quality monitoring pipeline**, automating data ingestion from the **OpenAQ API** and streaming updates with **Kafka**.
- Currently implementing forecasting using Meta Prophet and Kafka consumer to trigger periodic retraining.
- Developing front-end dashboard with **ReactJS** and **TailwindCSS** for monitoring air quality.

**E-commerce REST API** | Go, MySQL, Docker, Redis, Prometheus, Git

June 2025 – July 2025

- Engineered a high-performance REST API in Go featuring JWT authentication, Redis caching, and Dockerized microservices.
- Built out **JWT** authentication with bcrypt library.
- Implemented a round-robin load balancer with concurrent health checks, automated IP cleanup, and a built-in rate limiter, achieving robust performance under heavy traffic.

### CERTIFICATIONS

Stanford Machine Learning Specialization | Python, TensorFlow, Numpy, Matplotlib, Scikit.learn

July 2024

 Applied variety of AI and ML concepts: Decision Trees, Neural Networks, Logistic and Linear Regression, Model evaluation, and Feature engineering

NYU Machine Learning in Finance | Python, Linear Algebra, Financial Modelling

July 2024

• Developing financial models using machine learning and AI

### EDUCATION

### University of Toronto St. George

Toronto, ON

Honors Bachelor of Science, Computer Science Specialist, Statistics Major, Mathematics Minor. (Dean's List Scholar)

Sep. 2024 - May 2028