Oliver Kwun-Morfitt

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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 Teamb — *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 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*