

Oliver Kwun-Morfitt

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TECHNICAL SKILLS

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

Frameworks: React, Node.js, Next.js, Express.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

University of Toronto Machine Intelligence Student Team

September 2025 – Present

Toronto, ON

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

Full-Stack Developer

University of Toronto Climbing Club

May 2025 – Present

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)

The Planning Partnership

September 2024 – Present

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.

PROJECTS

Real-time Ledger API | Go, Gorilla/Mux, UUID, Docker, REST, Git

November 2025

- Engineered a **production-grade, double-entry ledger** with strict **balancing** and **non-negative balance invariants**, exposing clean REST endpoints for accounts, balances, and journal postings.
- Built a **flexible storage layer** (in-memory + pluggable Postgres), supporting **journaling**, **idempotent entry handling**, and **currency-safe Money validation**.
- Added **token-based middleware**, **structured logging**, **health probes**, and curl onboarding docs to streamline integration and testing.
- **Hardened posting pipeline** to block currency mismatches, zero-amount writes, and invalid netting for **resilient high-volume fintech workflows**.

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 & Statistics, Math Minor — (**GPA 3.77**) (Dean's List Scholar)

Sep. 2024 – May 2028