

# Oliver Kwun-Morfitt

Toronto, ON | 647-323-8175 | [oliverkwunmorfitt@gmail.com](mailto:oliverkwunmorfitt@gmail.com) | [LinkedIn](#) | [Github](#) | [Portfolio](#)

## 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

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.

## 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*