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, gRPC, FastAPI
Developer Tools: Git, Docker, PostgreSQL, MySQL, MongoDB, Firebase, Redis, Kafka, Github, CI/CD
Libraries: Pandas, NumPy, Matplotlib, TensorFlow, PyTorch, TailwindCSS, pytest, SQLAlchemy, bcrypt

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.
- Added **token-based authentication** flow to secure job submissions to GPU servers.

Full-Stack Developer　　　　　　　　　　　　　　　　　　May 2025 – Present
University of Toronto Climbing Club　　　　　　　　　　　　　　　　*Toronto, ON*
- Implemented **responsive**, **performant** UI using **Next.js + Tailwind**, improving mobile usability.

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
- Built a **production-grade** double-entry **ledger service** enforcing per-currency invariants, rejecting unsafe postings, and guaranteeing non-negative balances.
- Designed a pluggable **storage engine** (in-memory + **PostgreSQL**) with idempotent entry handling and atomic journaling.
- 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**.
- **Benchmarked** ledger endpoints at **3.6k req/s** with **p95** latency of **14 ms**, maintaining full ACID-safe posting invariants under load.

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**.
- Improved API throughput from **2.1k to 4.4k req/s** after adding Redis caching and a concurrent round-robin load balancer; reduced average latency from **72 ms to 31 ms** at **p50** and maintained **99.6%** availability during failover tests.
- 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

EDUCATION

University of Toronto St. George　　　　　　　　　　　　　　　　Toronto, ON
Honors Bachelor of Science, Computer Science & Statistics, Math Minor — (GPA 3.77) (Dean's List Scholar)　　　　　　　　　　　　　　　　　　　*May 2028*