Tuong Luu

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Education

University of Waterloo — Expected 2028
Bachelor of Mathematics, Honours Computational Mathematics — *Waterloo, Ontario*

Experience

Faire — Incoming Winter 2027
Software Engineer Intern — Product Security — *Waterloo, Ontario*

Carta — May 2026 – Aug 2026
Software Engineer Intern — Data Ecosystem — *Kitchener, Ontario*

- Saved **$50K annually** by building and launching docs.carta.com using Docusaurus, replacing a third-party API documentation platform with an automated content pipeline and API gateway routing
- Eliminated manual Snowflake PAT provisioning by enabling customers to self-serve token creation through stored procedures, integrating Django, React, and Terraform with a feature-flagged rollout
- Diagnosed upstream data gaps and API gateway routing errors behind recurring on-call pages; reduced rows flagged by production tests from **255K+ to 2.5K**
- Fixed an intermittent matcher bug in a shared LLM evaluation framework, eliminating false test failures
- Built **30+ behavioral regression tests** validating AI agent skill routing and data warehouse table selection, ensuring agents invoke the correct tools and query the intended data sources

Lynkr — Sep 2025 – Dec 2025
Software Developer Intern — *Toronto, Ontario*

- Built tenant isolation and RBAC for a FastAPI/Next.js AI automation platform that connects business systems and orchestrates workflows across them, **serving 500+ beta users**.
- Reduced GKE deployment time by **40%** by moving database seeding to a Kubernetes job
- Implemented multi-factor authentication using TOTP and Twilio, JWT session controls to secure account access
- Added audit logging for user actions, administrative changes, and security events to support activity tracing

WE Accelerate — Jan 2025 – May 2025
AI Solution Developer — *Waterloo, Ontario*

- Led a team of 5 to design an AI-based solution to prevent financial fraud against the elderly.
- Obtained AZ-900 and AI-900 certifications

Projects

AniDis – Anime Discovery Platform | TypeScript, Next.js, FastAPI, PostgreSQL

- Built a full-stack platform for anime discovery, watch tracking, and community discussions, with verified accounts, OAuth account linking, and API rate limits
- Designed a transactional-outbox pipeline to deliver in-app notifications and email through separate services, decoupling delivery from API requests
- Automated releases with versioned Docker images and preview environments with isolated databases; managed DNS and access policies as code with OpenTofu

Kyzen – 2D Game Engine | Java, LWJGL, OpenGL

- Designed a batch renderer for scenes with **1,000+ objects per frame**; integrated texture atlases to reduce draw calls by **over 70%**
- Implemented an entity-component system to compose game objects from reusable components

Technical Skills

Languages: Python, Java, C/C++, TypeScript, JavaScript, Bash
Frameworks: Django, FastAPI, React, Next.js
Tools: Git, Docker, Kubernetes, Terraform, Linux