

Tuong Luu

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EDUCATION

University of Waterloo

Candidate for Bachelor of Honours Computational Mathematics

Waterloo, Ontario

Sep 2023 - May 2028

TECHNICAL SKILLS

Languages: Java, Python, FastAPI, C/C++, JavaScript/TypeScript, Node.js, Express, React, Next.js

Databases: PostgreSQL, MongoDB, GCP (GKE, Secret Manager)

Tools: Git, Docker, Kubernetes (K8s), Linux, Bash, VS Code, Postman

Certifications: Azure Fundamentals, Azure AI Fundamentals

EXPERIENCE

Software Engineer Intern

Carta

Kitchener, Ontario

May. 2026 - Present

- To be added. . .

Software Developer Intern

Lynkr Inc

Toronto, Ontario

Sep. 2025 - Dec. 2025

- Collaborated with engineers to develop a FastAPI and Next.js application with AI agent orchestration, generating **\$100K+ CAD** in revenue and supporting **500+ beta users**
- Migrated the database seeder to a Kubernetes job, reducing deployment time on GKE by **40%**
- Architected multi-organization support with tenant isolation and RBAC, enabling secure segregation for and independent configuration per tenant
- Built account security features with MFA using TOTP and Twilio, along with JWT session controls, cutting unauthorized access by **70%** and protecting **500+** active sessions
- Developed an audit logging system tracking all user actions, admin changes, and security events, supporting compliance for **100% of critical operations**

WE Accelerate Program - Azure and Artificial Intelligence

University of Waterloo

Waterloo, Ontario

Jan. 2025 - Apr. 2025

- Led a team of 5 to design an AI-based solution preventing financial fraud against elders.
- Developed a comprehensive project planning tool and pipeline sequence wireframe, visualizing each step and aligning deliverables with industry best practices.
- Collaborated closely with a project mentor to refine goals, validate assumptions, and incorporate **real-world AI considerations** into the solution.

PROJECTS

AniDis - Full-Stack Anime Platform | Next.js, React, TypeScript, FastAPI, PostgreSQL, Redis, Docker

- Built **AniDis**, an anime discovery, tracking, and discussion platform, with Next.js product, landing, and Cel docs apps in a Turborepo monorepo.
- Designed FastAPI/PostgreSQL APIs for anime discovery, profiles, folders, episode progress, follows, threads, nested comments, likes, and avatar handling.
- Created path-filtered CI for monorepo quality gates, including linting, formatting, type checks, pytest suites, Playwright E2E, and Docker build validation.
- Added backend release safety checks with Postgres-backed test runs and Alembic schema drift detection for migration correctness.
- Published SHA-tagged GHCR images for web, landing, Cel docs, and backend services, then deployed by git SHA through a self-hosted GitHub Actions runner.
- Managed staging and production Docker Compose stacks behind Traefik with Doppler-synced secrets, private backend/Redis networking, migrations, and smoke checks.
- Wired OpenTelemetry, Grafana, Loki, Tempo, Prometheus, and Alloy to collect backend telemetry and Docker logs across deployed environments.