# Huu An Duc (Jack) Le

416-617-3686 | huuanducle@gmail.com | jack-le.com | linkedin.com/in/huu-an-duc-le | github.com/notjackl3

## EDUCATION

**University of Toronto**                                                                   2028
*Computer Science - Bachelor of Science - 3.9 GPA*                                    *Toronto, Canada*

**Courses:** Software Design (Object-Oriented Programming, Java), Systems Programming (Unix/Linux, C),
Computer Organization (Assembly), Data Structures & Analysis, Theory of Computation

**Leaderships:** Director of Operations (GenAI Genesis), Vice-President of Tech (UTMSAM), Organizer (EmberHacks),
Tech Associate (UTMFA), Hackathon Mentor (Ignition Hacks)

## EXPERIENCES

**Research Assistant**                                                               Sep 2025 – Present
*University of Toronto*                                                                 *Toronto, Canada*
- Collaborated with PhD students and professors to **develop an AI coding assistant for 1,000+ students** that generates and explains code through clear steps, alternative solutions, and rationales behind each design choice
- Worked on microservice backend using TypeScript and OpenAI API to deliver contextual insights for AI responses
- Performed **data analysis on 1600+ survey data points** using Pandas/Matplotlib to uncover key trends

**Software Project Lead**                                                            Aug 2025 – Present
*UofT Blueprint*                                                                        *Toronto, Canada*
- **Led 8 software developers**, organized development tickets to create a volunteer management system for TRCC
- Deployed Next.js app in TypeScript with Docker and CI/CD pipeline, **reducing deployment failures by 50%**
- Enforced 80% test coverage (Vitest), added Husky pre-commit hooks, and automated dependency maintenance
- **Improved delivery time for stakeholders by 30%** using Git workflows and SCRUM framework

**Tech Support Assistant**                                                           Aug 2025 – Present
*UTM Career Center*                                                                     *Toronto, Canada*
- Ensured accessibility (AODA compliant) interfaces and **inclusive UI/UX designs for 16,000+ students**
- Leveraged AI tools to optimize code and development time, delivering projects **1 month ahead of schedule**
- Implemented JavaScript-based tools for data-entry workflows, **saving $1,000/month** in manual labor

**Standard Operation Procedure Intern**                                              May 2025 – Aug 2025
*TRG International*                                                                   *Ho Chi Minh, Vietnam*
- Built notification bot with automated workflows, **cutting communication time by 40%** for 150+ employees
- Built Flask application parsing Word document to highlight key changes, **saving 20+ minutes per review**
- Automated geocoding of 100+ addresses using Python, generating interactive maps for HR location analytics

## PROJECTS

**UTM-Live** ⬡  **Python / Django / JavaScript / PostgreSQL / Mapbox**
- Built an interactive end-to-end Django app for students to explore study spots with realistic 3D mapping
- Boosted engagement with real-time dynamic lighting/weather effects based on user's live GPS coordinates
- Secured user information with JWT and PostgreSQL; designed REST APIs for location CRUD operations

**OperAid** ⬡  **Python / FastAPI / JavaScript / React / PostgreSQL / Tailwind CSS**
- Worked in a team of 4 on a voice-controlled app to retrieve patient data and MRI scans in under 5 seconds
- Planned, prototyped, and deployed a fullstack voice assistant in 6 hours using React.js, FastAPI, ElevenLabs
- Connected speech-to-text pipeline with PostgreSQL database to allow voice-driven access to 500+ records

**Vibe-Learn** ⬡  **Spring Boot / Apache Kafka / MongoDB / Docker / Grafana**
- Built event-driven VS Code extension capturing real-time code changes, processing 1,000+ events/session with sub-100ms latency across 4 Spring Boot microservices using Kafka message streaming and MongoDB database
- Optimized MongoDB connection and Kafka producer pooling, reducing request latency from 120ms to 2ms
- Configured circuit breakers and DLQ for fault tolerance, ensuring reliable processing with automatic recovery
- Built real-time Grafana dashboards to monitor service health, connection pool exhaustion, and partition lag
- Conducted load testing with JMeter simulating 500 concurrent users generating 10,000 events/minute

## TECHNICAL SKILLS

**Languages**: Python, JavaScript/Typescript, Java, C, SQL, HTML/CSS
**Frameworks**: Spring Boot, Next.js, Django, React.js, FastAPI, Flask, Tailwind CSS
**Technologies**: Git/Github, PostgreSQL, MongoDB, Supabase, AWS, Google Cloud Platform, Apache Kafka, Docker
**Coding Tools**: VS Code, IntelliJ, Pycharm, Gemini CLI, Cursor, Claude