

# Huu An Duc (Jack) Le

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## EDUCATION

### University of Toronto

Computer Science - Bachelor of Science - 3.9 GPA

2028

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 bots with automated workflows, **cutting communication time by 40%** for 150+ employees
- Created a Flask app that parsed 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

### Vibe-Learn Java / 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
- Made real-time Grafana dashboards to monitor service health, connection pool exhaustion, and partition lag
- Conducted load testing with JMETER simulating 100 concurrent users generating 1,000 events/minute

### Image Gallery Python / FastAPI / JavaScript / AWS

- Built a serverless image gallery using AWS EC2, S3, and DynamoDB for metadata and image storage
- Implemented global caching with CloudFront, reducing average load times from 220ms to 35ms
- Compressed images by 60% using Canvas API and automated file cleanup with AWS Lambda

### 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

## 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