

Huu An Duc (Jack) Le

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EDUCATION

University of Toronto	2028
<i>Computer Science - Bachelor of Science - 3.9 GPA</i>	<i>Toronto, Canada</i>
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
<i>University of Toronto</i>	<i>Toronto, Canada</i>
• 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
<i>UofT Blueprint</i>	<i>Toronto, Canada</i>
• 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
<i>UTM Career Center</i>	<i>Toronto, Canada</i>
• 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
<i>TRG International</i>	<i>Ho Chi Minh, Vietnam</i>
• 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

OperAid  Python / FastAPI / JavaScript / React / PostgreSQL / Tailwind CSS	
• Worked in a <u>team of 4</u> on a voice-controlled app to <u>retrieve patient data and MRI scans in under 5 seconds</u>	
• Planned, prototyped, and deployed a <u>fullstack voice assistant in 6 hours</u> using React.js, FastAPI, ElevenLabs	
• Connected speech-to-text pipeline with PostgreSQL database to allow <u>voice-driven access to 500+ records</u>	
Vibe-Learn  Java / Spring Boot / Apache Kafka / MongoDB / Docker / Grafana	
• Built event-driven VS Code extension capturing real-time code changes, <u>processing 1,000+ events/session with sub-100ms latency across 4 Spring Boot microservices</u> using Kafka message streaming and MongoDB database	
• Optimized MongoDB connection and Kafka producer pooling, <u>reducing request latency from 120ms to 2ms</u>	
• 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	
UTM-Live  Python / Django / JavaScript / PostgreSQL / Mapbox	
• Created an interactive end-to-end Django app for students to explore study spots with <u>realistic 3D models</u>	
• Boosted engagement with <u>real-time dynamic lighting/weather effects</u> based on user's live GPS coordinates	
• Secured user information with JWT and PostgreSQL; designed REST APIs for location CRUD operations	

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