

# Huu An Duc (Jack) Le

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## EDUCATION

<b>University of Toronto</b>	2028
<i>Computer Science - Bachelor of Science - 3.9 GPA</i>	<i>Toronto, Canada</i>
<b>Courses:</b> Software Design (Object-Oriented Programming, Java), Systems Programming (Unix/Linux, C), Computer Organization (Assembly), Data Structures & Analysis, Theory of Computation	
<b>Leaderships:</b> Director of Operations ( <a href="#">GenAI Genesis</a> ), Vice-President of Tech ( <a href="#">UTMSAM</a> ), Organizer ( <a href="#">EmberHacks</a> ), Tech Associate ( <a href="#">UTMFA</a> ), Hackathon Mentor ( <a href="#">Ignition Hacks</a> )	

## EXPERIENCES

<b>Research Assistant</b>	Sep 2025 – Present
<i>University of Toronto</i>	<i>Toronto, Canada</i>
<ul style="list-style-type: none"><li>Collaborated with PhD students and professors to <b>develop an AI coding assistant for 1,000+ students</b> that generates and explains code through clear steps, alternative solutions, and rationales behind each design choice</li><li>Worked on microservice backend using TypeScript and OpenAI API to deliver contextual insights for AI responses</li><li>Performed <b>data analysis on 1600+ survey data points</b> using Pandas/Matplotlib to uncover key trends</li></ul>	
<b>Software Project Lead</b>	Aug 2025 – Present
<i>UofT Blueprint</i>	<i>Toronto, Canada</i>
<ul style="list-style-type: none"><li><b>Led 8 software developers</b>, organized development tickets to create a volunteer management system for <a href="#">TRCC</a></li><li>Deployed Next.js app in TypeScript with Docker and CI/CD pipeline, <b>reducing deployment failures by 50%</b></li><li>Enforced <b>80% test coverage</b> (Vitest), added Husky pre-commit hooks, and automated dependency maintenance</li><li><b>Improved delivery time for stakeholders by 30%</b> using Git workflows and SCRUM framework</li></ul>	
<b>Tech Support Assistant</b>	Aug 2025 – Present
<i>UTM Career Center</i>	<i>Toronto, Canada</i>
<ul style="list-style-type: none"><li>Ensured accessibility (AODA compliant) interfaces and <b>inclusive UI/UX designs for 16,000+ students</b></li><li>Leveraged AI tools to optimize code and development time, delivering projects <b>1 month ahead of schedule</b></li><li>Implemented JavaScript-based tools for data-entry workflows, <b>saving \$1,000/month</b> in manual labor</li></ul>	
<b>Standard Operation Procedure Intern</b>	May 2025 – Aug 2025
<i>TRG International</i>	<i>Ho Chi Minh, Vietnam</i>
<ul style="list-style-type: none"><li>Built notification bots with automated workflows, <b>cutting communication time by 40%</b> for 150+ employees</li><li>Created a Flask app that parsed Word document to highlight key changes, <b>saving 20+ minutes per review</b></li><li>Automated geocoding of 100+ addresses using Python, generating interactive maps for HR location analytics</li></ul>	

## PROJECTS

<b>OperAid 🗎 Python / FastAPI / JavaScript / React / PostgreSQL / Tailwind CSS</b>
<ul style="list-style-type: none"><li>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></li><li>Planned, prototyped, and deployed a <u>fullstack voice assistant in 6 hours</u> using React.js, FastAPI, ElevenLabs</li><li>Connected speech-to-text pipeline with PostgreSQL database to allow <u>voice-driven access to 500+ records</u></li></ul>
<b>Vibe-Learn 🗎 Java / Spring Boot / Apache Kafka / MongoDB / Docker / Grafana</b>
<ul style="list-style-type: none"><li>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</li><li>Optimized MongoDB connection and Kafka producer pooling, <u>reducing request latency from 120ms to 2ms</u></li><li>Configured circuit breakers and DLQ for fault tolerance, ensuring reliable processing with automatic recovery</li><li>Made real-time Grafana dashboards to monitor service health, connection pool exhaustion, and partition lag</li><li>Conducted load testing with JMeter <u>simulating 100 concurrent users generating 1,000 events/minute</u></li></ul>
<b>UTM-Live 🗎 Python / Django / JavaScript / PostgreSQL / Mapbox</b>
<ul style="list-style-type: none"><li>Created an interactive end-to-end Django app for students to explore study spots with <u>realistic 3D models</u></li><li>Boosted engagement with <u>real-time dynamic lighting/weather effects</u> based on user's live GPS coordinates</li><li>Secured user information with JWT and PostgreSQL; designed REST APIs for location CRUD operations</li></ul>

## TECHNICAL SKILLS

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