

Huu An Duc (Jack) Le

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EDUCATION

University of Toronto <i>Computer Science - Bachelor of Science - 3.9 GPA</i>	2028 <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 <i>University of Toronto</i>	Sep 2025 – Present <i>Toronto, Canada</i>
<ul style="list-style-type: none">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 choiceWorked on microservice backend using TypeScript and OpenAI API to deliver contextual insights for AI responsesPerformed data analysis on 1600+ survey data points using Pandas/Matplotlib to uncover key trends	
Software Project Lead <i>UofT Blueprint</i>	
<ul style="list-style-type: none">Led 8 software developers, organized development tickets to create a volunteer management system for TRCCDeployed 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 maintenanceImproved delivery time for stakeholders by 30% using Git workflows and SCRUM framework	
Tech Support Assistant <i>UTM Career Center</i>	
<ul style="list-style-type: none">Ensured accessibility (AODA compliant) interfaces and inclusive UI/UX designs for 16,000+ studentsLeveraged AI tools to optimize code and development time, delivering projects 1 month ahead of scheduleImplemented JavaScript-based tools for data-entry workflows, saving \$1,000/month in manual labor	
Standard Operation Procedure Intern <i>TRG International</i>	
<ul style="list-style-type: none">Built notification bot with automated workflows, cutting communication time by 40% for 150+ employeesBuilt Flask application parsing Word document to highlight key changes, saving 20+ minutes per reviewAutomated geocoding of 100+ addresses using Python, generating interactive maps for HR location analytics	

PROJECTS

UTM-Live  Python / Django / JavaScript / PostgreSQL / Mapbox	
<ul style="list-style-type: none">Built an interactive end-to-end Django app for students to explore study spots with realistic 3D mappingBoosted engagement with real-time dynamic lighting/weather effects based on user's live GPS coordinatesSecured user information with JWT and PostgreSQL; designed REST APIs for location CRUD operations	
OperAid  Python / FastAPI / JavaScript / React / PostgreSQL / Tailwind CSS	
<ul style="list-style-type: none">Worked in a team of 4 on a voice-controlled app to retrieve patient data and MRI scans in under 5 secondsPlanned, prototyped, and deployed a fullstack voice assistant in 6 hours using React.js, FastAPI, ElevenLabsConnected speech-to-text pipeline with PostgreSQL database to allow voice-driven access to 500+ records	
Vibe-Learn  Java / Spring Boot / Apache Kafka / MongoDB / Docker / Grafana	
<ul style="list-style-type: none">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 databaseOptimized MongoDB connection and Kafka producer pooling, reducing request latency from 120ms to 2msConfigured circuit breakers and DLQ for fault tolerance, ensuring reliable processing with automatic recoveryBuilt real-time Grafana dashboards to monitor service health, connection pool exhaustion, and partition lagConducted 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