

Huu An Duc (Jack) Le

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EDUCATION

University of Toronto <i>Computer Science - Bachelor of Science - 3.76 GPA</i>	2028 <i>Toronto, Canada</i>
Courses: Software Design , Systems Programming, Computer Organization, Data Structures & Analysis, Database Management Systems, Web Programming, 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, creating clear explanations, alternative solutions, and design rationales to enhance technical understandingAnalyzed 1,600+ data points using Pandas/Matplotlib to find trends and optimize tool efficiencyWorked on microservice using TypeScript and OpenAI API, added contextual insights to AI responses	
Software Project Lead <i>UofT Blueprint + Toronto Crisis Center</i>	
<ul style="list-style-type: none">Led 8 developers, organized development tickets to create a volunteer management app for TRCCDeployed Next.js (TypeScript) app with Docker and CI/CD pipelines, cut deployment failures by 50%Enforced 80% test coverage (Vitest), built integration test structure, and added Husky commit hooksImproved delivery time by 30% for stakeholders using Git, Github workflows and SCRUM framework	
Tech Support Assistant <i>UTM Career Center</i>	
<ul style="list-style-type: none">Created AODA-compliant documents and designed inclusive UI/UX interfaces for 16,000+ studentsImplemented JavaScript scripts for data-entry workflows, saving \$1,000/month in operational costLeveraged AI tools to optimize code and save time, delivering projects 1 month ahead of schedule	
Standard Operation Procedure Intern <i>TRG International</i>	
<ul style="list-style-type: none">Built chatbots with automated workflows, reducing communication time by 40% for 150+ employeesCreated Python tools to compare documents and track live changes, saving 20+ minutes/review cycleGeocoded 100+ addresses and mapped staff locations to analyze optimal commute paths for HR team	

PROJECTS

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 stream and MongoDB databaseConducted load and stress testing, simulating 20+ concurrent users generating 50-500 events/secondsOptimized query using aggregation and producer pooling, reducing request latency from 120ms to 2msMade real-time Grafana dashboards to monitor service health, connection pool time, and partition lag	
SkySync  Python / JavaScript / Express.js / Node.js / React.js / MongoDB	
<ul style="list-style-type: none">This app identifies aircraft groups that can fly in "bird formations" to reduce fuel, saving up to 4%/tripDesigned a flight-pairing algorithm to find 600K+ plane formations by proximity and schedule overlapIntegrated gradient descent scripts with the Node.js backend to compute fuel-optimal routes in real timeHandled 1.6M+ rows of flight data with MongoDB indexing, reducing query delay from 15s to 500ms	
Image Gallery  Python / FastAPI / JavaScript / AWS	
<ul style="list-style-type: none">Built a serverless image gallery using AWS EC2, S3, and DynamoDB for metadata and image storageImplemented global caching with AWS CloudFront, reducing average load times from 220ms to 35msCompressed images by 60% using Canvas API and automated weekly file cleanup with AWS Lambda	

TECHNICAL SKILLS

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