

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 (<u>GenAI Genesis</u>), Vice-President of Tech (<u>UTMSAM</u>), Organizer (<u>EmberHacks</u>), Tech Associate (<u>UTMFA</u>), Hackathon Mentor (<u>Ignition Hacks</u>)	

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 <u>TRCC</u>	
• 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 bot with automated workflows, cutting communication time by 40% for 150+ employees	
• Built Flask application parsing 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	
• Built real-time Grafana dashboards to monitor service health, connection pool exhaustion, and partition lag	
• Conducted load testing with JMeter simulating 500 concurrent users generating 10,000 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	
Youtube as a Service  Python / Django / Google Cloud Platform / Tailwind CSS	
• Encoded files as video frames uploaded to YouTube, achieving unlimited cloud storage with lossless data recovery	
• Produced compression-tolerant algorithm, achieving 99.9% accuracy in bit-level file recovery across 30+ files	
• Designed backend safeguards for large file handling, error recovery, and long-running encoding tasks	

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