

# 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 ( <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

<b>Research Assistant</b>	Sep 2025 – Present
<i>University of Toronto</i>	<i>Toronto, Canada</i>
• 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	
• Worked on microservice backend using TypeScript and OpenAI API to deliver contextual insights for AI responses	
• Performed <b>data analysis on 1600+ survey data points</b> using Pandas/Matplotlib to uncover key trends	
<b>Software Project Lead</b>	Aug 2025 – Present
<i>UofT Blueprint</i>	<i>Toronto, Canada</i>
• <b>Led 8 software developers</b> , 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, <b>reducing deployment failures by 50%</b>	
• Enforced 80% test coverage (Vitest), added Husky pre-commit hooks, and automated dependency maintenance	
• <b>Improved delivery time for stakeholders by 30%</b> using Git workflows and SCRUM framework	
<b>Tech Support Assistant</b>	Aug 2025 – Present
<i>UTM Career Center</i>	<i>Toronto, Canada</i>
• Ensured accessibility (AODA compliant) interfaces and <b>inclusive UI/UX designs for 16,000+ students</b>	
• Leveraged AI tools to optimize code and development time, delivering projects <b>1 month ahead of schedule</b>	
• Implemented JavaScript-based tools for data-entry workflows, <b>saving \$1,000/month</b> in manual labor	
<b>Standard Operation Procedure Intern</b>	May 2025 – Aug 2025
<i>TRG International</i>	<i>Ho Chi Minh, Vietnam</i>
• Built notification bot with automated workflows, <b>cutting communication time by 40%</b> for 150+ employees	
• Built Flask application parsing Word document to highlight key changes, <b>saving 20+ minutes per review</b>	
• Automated geocoding of 100+ addresses using Python, generating interactive maps for HR location analytics	

## PROJECTS

<b>Vibe-Learn</b>  <b>Spring Boot / Apache Kafka / MongoDB / Docker / Grafana</b>	
• 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	
<b>Image Gallery</b>  <b>Python / FastAPI / JavaScript / AWS</b>	
• 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	
<b>Youtube as a Service</b>  <b>Python / Django / Google Cloud Platform / Tailwind CSS</b>	
• 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

<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