

Huu An Duc (Jack) Le

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EDUCATION

University of Toronto

2028

Computer Science - Bachelor of Science - 3.9 GPA

Toronto, Canada

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

09/2025 – Present

University of Toronto

Toronto, Canada

- Collaborated with PhD students and professors to **develop an AI coding assistant** for students that generates and explains code through reasoning steps, alternative solutions, and the rationale behind each design choice
- Performed **data analysis on 1600+ survey data points** using Pandas/Matplotlib to uncover key trends
- Enhanced usability using TypeScript and OpenAI API to deliver contextual insights and reduce cognitive load

Software Project Lead

08/2025 – Present

UofT Blueprint

Toronto, Canada

- **Led 8 software developers**, organized development tickets to create a volunteer management system for [TRCC](#)
- Deployed a full-stack Next.js application using TypeScript and Vercel with an automated CI/CD pipeline
- **Improved delivery time for stakeholders by 30%** using Git workflows and SCRUM framework

Tech Support Assistant

08/2025 – Present

UTM Career Center

Toronto, Canada

- Ensured accessibility (AODA compliant) interfaces and **inclusive UI/UX designs for 16,000+ students**
- Implemented JavaScript-based tools for data-entry workflows, **saving \$1,000/month** in manual labor

Standard Operation Procedure Intern

05/2025 – 08/2025

TRG International

Ho Chi Minh, Vietnam

- Developed a real-time chatbot to notify 150+ employees of events, **cut communication time by 40%**
- Created a version control tool for Word documents using Flask, **saved 20+ minutes per review cycle**
- Automated geocoding of 100+ addresses using Python and researched relevant geospatial resources

Computer Science Mentor

09/2024 – 05/2025

University of Toronto

Toronto, Canada

- Conducted weekly lessons for first-year students on data structures, and complexity analysis with Python
- **Contributed 600+ helpful responses** to courses' forum, received 95% positive feedback from students
- Wrote and ran unit tests using PyTest for debugging, identifying edge cases and improving code reliability

PROJECTS

OperAid 🗣️

- Worked in a team of 4 on a voice-controlled app to retrieve patient data and MRI scans in under 5 seconds
- Planned, prototyped, and deployed a fullstack voice assistant in 6 hours using React.js, FastAPI, ElevenLabs
- Connected speech-to-text pipeline with PostgreSQL database to allow voice-driven access to 500+ records

UTM-Live 🗣️

- Built an interactive end-to-end Django application for students to explore study spots with 3D mapping
- Boosted user engagement with real-time dynamic lighting/weather effects using live GPS coordinates
- Secured user information with JWT and PostgreSQL; designed REST APIs for personalized locations

Image Gallery 🖼️

- 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

TECHNICAL SKILLS

Languages: Python, JavaScript/Typescript, Java, C, SQL, HTML/CSS

Frameworks: Django, Next.js, React.js, FastAPI, Flask, Tailwind, Bootstrap

Technologies: Git/Github, PostgreSQL, AWS, Google Cloud Platform, Docker, Supabase, Vercel/Render