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 — SEP 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 — AUG 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
- Oversaw architectural structure, established coding standards, and conducted weekly code reviews sessions
- **Improved delivery time for stakeholders by 30%** using Git workflows and SCRUM framework

Tech Support Assistant — AUG 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 — MAY 2025 – AUG 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 — SEP 2024 – MAY 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

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

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

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
Coding Tools: VS Code, IntelliJ, Pycharm, Gemini CLI, Cursor, Claude