Huu An Duc (Jack) Le

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Education

University of Toronto September, 2024 - June, 2028

Computer Science Specialist - Bachelor of Science - 3.9 GPA *Mississauga, Canada*

Courses: Software Design (**Object-Oriented Programming, Java**), Systems Programming (**Unix/Linux, C**), Computer Organization (Assembly), Data Structures & Analysis, Theory of Computation

Experiences

Research Assistant September 2025 – Present

University of Toronto *Toronto, Canada*

- Collaborate with professors to develop CopilotLens, an **AI-powered agent** with a multi-layered reasoning system
- Improve usability using **TypeScript** and **OpenAI API** to deliver contextual insights and reduce cognitive load
- Perform **data analysis** on 1600+ survey data points using **Pandas/Matplotlib** to identify students' behaviors

Software Project Lead August 2025 – Present

UofT Blueprint *Toronto, Canada*

- Lead a fullstack **software development** team to deliver applications for NGOs using **Agile/Scrum** practices
- Enable collaboration using **Github**, **git** branching, sprint workflows, and tickets with feedbacks from stakeholders

Tech Support Assistant August 2025 – Present

UTM Career Center *Toronto, Canada*

- Prototype a resume builder using **React.js frontend**, **Django backend** to reduce resume creation time by 75%
- Implement server-side **Javascript** to streamline repetitive data entry tasks, saving $1,000/month in manual labor
- Ensure accessibility (AODA compliant) interfaces and inclusive **UI/UX** practices for 16,000+ students

Standard Operation Procedure Intern May 2025 – August 2025

TRG International *Ho Chi Minh, Vietnam*

- Created a **version control** tool for Word documents using **Flask** to reduce manual review time by 20+ minutes
- Developed a real-time **virtual agent** to notify 150+ employees of events, reducing communication time by 40%
- Automated geocoding of 100+ addresses using **Python** and researched relevant geospatial resources
- Cooperated with department leads to produce **cross-functional documentation**, optimizing process workflows

Computer Science Mentor September 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 professors and students
- Wrote and ran **unit tests** using PyTest for **debugging**, identifying edge cases and improving code reliability

Projects

OperAid (hackathon project) Source Code

- 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 Source Code

- Built an interactive **end-to-end Django** application for students to explore study spots with **3D mapping**
- Enhanced user engagement with **real-time dynamic lighting/weather** effects based on user's live coordinates
- Secured user information with **JWT auth** and **PostgreSQL**; designed **REST APIs** for personalized locations

Image Gallery Source Code

- Made a serverless gallery with using **AWS EC2**, **S3** and **DynamoDB (NoSQL database)** for storage/metadata
- Set up global caching using **CloudFront CDN**. Lowered the average images load time from 220ms to 35ms
- Compressed client-side images by 60% using Canvas API and automate files deletion using **Lambda**

Technical Skills

Languages: Python, JavaScript, Typescript, Java, C, SQL, HTML/CSS
Frameworks: Django, React.js, Spring Boot, FastAPI, Flask, Tailwind, Bootstrap
Technologies: AWS, Git/Github, PostgreSQL, MongoDB, Google Cloud, Docker, Supabase, Render, Postman