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 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

UofT Blueprint *Toronto, Canada*

- **Led 8 software developers**, organized development tickets to create a volunteer management system for TRCC
- 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

UTM Career Center *Toronto, Canada*

- 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

TRG International *Ho Chi Minh, Vietnam*

- Built notification bots with automated workflows, **cutting communication time by 40%** for 150+ employees
- Created a Flask app that parsed 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

Computer Science Mentor Sep 2024 – May 2025

University of Toronto *Toronto, Canada*

- **Contributed 600+ helpful responses** to courses' forum, received 95% positive feedback from students
- Wrote JUnit, PyTest tests for students to debug, increasing test coverages and improving code reliability

Projects

Catch-It **TypeScript / React Native / Google Cloud Platform**

- Engineered a trip planning app for iOS/Android/Web using React Native, with 95%+ code reuse across platforms
- Utilized TanStack Query async state management, optimizing API through caching to reduce redundant requests
- Integrated 3 GCP API services to provide a seamless end-to-end travel experience, saving 2 minutes per search

UTM-Live **Python / Django / JavaScript / PostgreSQL / Mapbox**

- Created an interactive end-to-end Django app for students to explore study spots with realistic 3D models
- Boosted engagement with real-time dynamic lighting/weather effects based on user's live GPS coordinates
- Secured user information with JWT and PostgreSQL; designed REST APIs for location CRUD operations

OperAid **Python / FastAPI / JavaScript / React / PostgreSQL / Tailwind CSS**

- 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

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