

Huu An Duc (Jack) Le

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EDUCATION

University of Toronto

Computer Science - Bachelor of Science - 3.76 GPA

2028

Toronto, Canada

Courses: Software Design (Object-Oriented Programming), Systems Programming (Unix/Linux), Computer Organization (Assembly), Data Structures & Analysis, Database Management Systems, Web Programming

Leaderships: Director of Operations ([GenAI Genesis](#)), Vice-President of Tech ([UTMSAM](#)), Organizer ([EmberHacks](#)), Tech Associate ([UTMFA](#)), Hackathon Mentor ([Ignition Hacks](#))

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.js / 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](#)

EXPERIENCES

Research Assistant

University of Toronto

Sep 2025 – Present

Toronto, Canada

- Collaborated with PhD students and professors to **develop an AI coding assistant for 1,000+ students**, creating clear explanations, alternative solutions, and design rationales to enhance technical understanding
- Analyzed 1,600+ user data points** using Pandas/Matplotlib to find trends and optimize tool efficiency
- Worked on microservice using TypeScript and OpenAI API, adding contextual insights to AI responses

Software Project Lead

UofT Blueprint + Toronto Rape Crisis Center

Aug 2025 – Present

Toronto, Canada

- Led 8 software developers**, organized development tickets to create a management system for [TRCC](#)
- Deployed Next.js (TypeScript) app with Docker and CI/CD pipelines, **cut deployment failures by 50%**
- Enforced **80% test coverage** (Vitest), added Husky commit hooks, and automated dependency updates
- Improved delivery time by 30%** for stakeholders using Git, Github workflows and SCRUM framework

Tech Support Assistant

UTM Career Center

Aug 2025 – Present

Toronto, Canada

- Created AODA-compliant documents and designed **inclusive UI/UX interfaces for 16,000+ students**
- Implemented JavaScript-based scripts for data-entry workflows, **saving \$1,000/month** in operational cost
- Leveraged AI tools to optimize code and development time, delivering projects **1 month ahead of schedule**

Standard Operation Procedure Intern

TRG International

May 2025 – Aug 2025

Ho Chi Minh, Vietnam

- Built chatbots with automated workflows, **reducing communication time by 40%** for 150+ employees
- Created Python tools to compare documents and track live changes, **saving 20+ minutes/review cycle**
- Geocoded 100+ addresses** with Python and mapped staff locations to analyze commute paths for HR team

TECHNICAL SKILLS

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

Frameworks: Spring Boot, Node.js, Next.js, Django, React.js, FastAPI, Flask, Tailwind CSS, Vitest, JUnit, PyTest

Technologies: Git/Github, PostgreSQL, MongoDB, Supabase, AWS, Google Cloud Platform, Apache Kafka, Docker

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