

# 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
- 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 app in TypeScript with CI/CD pipeline, **reducing deployment failures by 50%**
- 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**
- 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

- 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

- **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

### Image Gallery 🔄 Python / FastAPI / JavaScript / AWS

- 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

### Job Hunter 🔄 Python / FastAPI / BeautifulSoup / PostgreSQL / Matplotlib

- Web scraped and analyzed 100+ job postings from LinkedIn, Indeed, Google using BeautifulSoup and JobSpy
- Generated cover letter using keyword extraction and natural language processing, saving 90% of writing time
- Visualized market trends using Matplotlib and Chart.js, identifying the top 10 in-demand tech skills

### Youtube as a Service 🔄 Python / Django / Google Cloud Platform / Tailwind CSS

- Compile files into Youtube videos using Google Cloud, allowing unlimited storage space and lossless decoding
- Produced compression-tolerant algorithm, achieving 99.9% accuracy in bit-level file recovery across 30+ files
- Designed backend safeguards for large file handling, error recovery, and long-running encoding tasks

## 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