

Huu An Duc (Jack) Le

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EDUCATION

University of Toronto 2028
Computer Science - Bachelor of Science - 3.76 GPA *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](#))

EXPERIENCES

Research Assistant Sep 2025 – Present
University of Toronto *Toronto, Canada*

- Worked with PhD students and professors to gather insights and **develop an AI tool for 1K+ students**
- Analyzed 1,600+ user data points** using Pandas/Matplotlib to identify trends, optimize tool effectiveness

Project Lead Aug 2025 – Present
UofT Blueprint *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 Aug 2025 – Present
UTM Career Center *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 May 2025 – Aug 2025
TRG International *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
- Managed documentation and created training materials **across 4 departments** (HR, Sales, Marketing, L&D)


PROJECTS

Job Hunter  **Python / FastAPI / BeautifulSoup / PostgreSQL / Matplotlib**

- Web scraped and analyzed 100+ job postings from LinkedIn, Indeed, Google to identify latest industry trends
- Visualized market trends using Matplotlib and Chart.js, generating insights on top 10 in-demand tech skills

Vibe-Learn  **Java / Spring Boot / Apache Kafka / MongoDB / Docker / Grafana**

- Built event-driven VS Code extension capturing real-time code changes, processing 1,000+ events/session with sub-100ms latency across 4 Spring Boot microservices using Kafka message streaming and MongoDB database
- Optimized MongoDB connection and Kafka producer pooling, reducing request latency from 120ms to 2ms
- Made real-time Grafana dashboards to monitor service health, connection pool exhaustion, and partition lag
- Conducted load and stress testing, simulating 20+ concurrent users generating 50-500 events/seconds

SkySync  **Python / JavaScript / Express.js / Node.js / React.js / MongoDB**

- This app identifies aircraft groups that can fly in "bird formations" to reduce fuel, saving up to 4%/trip
- Designed a flight-pairing algorithm that creates 600K+ plane formations by proximity and schedule overlap
- Handled 1.6M+ flight data with MongoDB indexing and aggregation, reducing query delay from 15s to 500ms
- Integrated Python gradient descent scripts with the Node.js backend to compute fuel-optimal routes in real time

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