

# Huu An Duc (Jack) Le

416-617-3686 | [huuanducle@gmail.com](mailto:huuanducle@gmail.com) | [jack-le.com](http://jack-le.com) | [linkedin.com/in/huu-an-duc-le](https://linkedin.com/in/huu-an-duc-le) | [github.com/notjackl3](https://github.com/notjackl3)

## EDUCATION

<b>University of Toronto</b> <i>Computer Science - Bachelor of Science - 3.76 GPA</i>	2028 <i>Toronto, Canada</i>
<b>Courses:</b> Software Design (Object-Oriented Programming), Systems Programming (Unix/Linux), Computer Organization (Assembly), Data Structures & Analysis, Database Management Systems, Web Programming	
<b>Leaderships:</b> Director of Operations ( <a href="#">GenAI Genesis</a> ), Vice-President of Tech ( <a href="#">UTMSAM</a> ), Organizer ( <a href="#">EmberHacks</a> ), Tech Associate ( <a href="#">UTMFA</a> ), Hackathon Mentor ( <a href="#">Ignition Hacks</a> )	

## EXPERIENCES

<b>Research Assistant</b> <i>University of Toronto</i>	Sep 2025 – Present <i>Toronto, Canada</i>
• Worked with PhD students and professors to gather insights and <b>develop an AI tool for 1K+ students</b>	
• <b>Analyzed 1,600+ user data points</b> using Pandas/Matplotlib to identify trends, optimize tool effectiveness	
<b>Project Lead</b> <i>UofT Blueprint</i>	Aug 2025 – Present <i>Toronto, Canada</i>
• <b>Led 8 software developers</b> , organized development tickets to create a management system for <a href="#">TRCC</a>	
• Deployed Next.js (TypeScript) app with Docker and CI/CD pipelines, <b>cut deployment failures by 50%</b>	
• Enforced <b>80% test coverage</b> (Vitest), added Husky commit hooks, and automated dependency updates	
• <b>Improved delivery time by 30%</b> for stakeholders using Git, Github workflows and SCRUM framework	
<b>Tech Support Assistant</b> <i>UTM Career Center</i>	Aug 2025 – Present <i>Toronto, Canada</i>
• Created AODA-compliant documents and designed <b>inclusive UI/UX interfaces for 16,000+ students</b>	
• Implemented JavaScript-based scripts for data-entry workflows, <b>saving \$1,000/month</b> in operational cost	
• Leveraged AI tools to optimize code and development time, delivering projects <b>1 month ahead of schedule</b>	
<b>Standard Operation Procedure Intern</b> <i>TRG International</i>	May 2025 – Aug 2025 <i>Ho Chi Minh, Vietnam</i>
• Built chatbots with automated workflows, <b>reducing communication time by 40%</b> for 150+ employees	
• Created Python tools to compare documents and track live changes, <b>saving 20+ minutes/review cycle</b>	
• <b>Geocoded 100+ addresses</b> with Python and mapped staff locations to analyze commute paths for HR team	
• Managed documentation and created training materials <b>across 4 departments</b> (HR, Sales, Marketing, L&D)	

## PROJECTS

<b>Job Hunter</b>  <a href="#">Python / FastAPI / BeautifulSoup / PostgreSQL / Matplotlib</a>	
• Web scraped and <u>analyzed 100+ job postings</u> 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	
<b>Vibe-Learn</b>  <a href="#">Java / Spring Boot / Apache Kafka / MongoDB / Docker / Grafana</a>	
• Built event-driven VS Code extension capturing real-time code changes, <u>processing 1,000+ events/session with sub-100ms latency across 4 Spring Boot microservices</u> using Kafka message streaming and MongoDB database	
• Optimized MongoDB connection and Kafka producer pooling, <u>reducing request latency from 120ms to 2ms</u>	
• Made real-time Grafana dashboards to monitor service health, connection pool exhaustion, and partition lag	
• Conducted load and stress testing, <u>simulating 20+ concurrent users generating 50-500 events/seconds</u>	
<b>SkySync</b>  <a href="#">Python / JavaScript / Express.js / Node.js / React.js / MongoDB</a>	
• This app identifies aircraft groups that can fly in "bird formations" to reduce fuel, <u>saving up to 4%/trip</u>	
• Designed a flight-pairing algorithm that <u>creates 600K+ plane formations</u> by proximity and schedule overlap	
• Handled <u>1.6M+ flight data</u> with MongoDB indexing and aggregation, <u>reducing query delay from 15s to 500ms</u>	
• Integrated Python gradient descent scripts with the Node.js backend to compute fuel-optimal routes in real time	

## TECHNICAL SKILLS

<b>Languages:</b> Python, JavaScript/TypeScript, Java, C, SQL, HTML/CSS
<b>Frameworks:</b> Spring Boot, Node.js, Next.js, Django, React.js, FastAPI, Flask, Tailwind CSS, Vitest, JUnit, PyTest
<b>Technologies:</b> Git/Github, PostgreSQL, MongoDB, Supabase, AWS, Google Cloud Platform, Apache Kafka, Docker
<b>Coding Tools:</b> VS Code, IntelliJ, PyCharm, Gemini CLI, Cursor, Claude