

Jack Le

An aspiring research assistant at UofT seeking for opportunities!

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Education

University of Toronto GPA 3.9/4.0 – Bachelor of Science, Computer Science Specialist & Math Major	Mississauga, Canada Dean's List Scholar
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Technical Skills

Languages	: Python, JavaScript, HTML, CSS, SQL, LaTeX
Frameworks	: Django, FastAPI, Flask, Tailwind, Bootstrap
Technologies	: PostgreSQL, Mapbox, AWS, Supabase, Git, Postman, Render, Google Cloud Platform
Certificates	: AWS Certified Cloud Practitioner (in progress), IB Computer Science (Web Science)

Work Experiences

Vice President of Technology UTM Student Society for Algorithmic Modelling (UTMSAM) <ul style="list-style-type: none">Collaborate with <u>6 technical associates</u> to revamp the UTMSAM websiteSpearhead <u>EmberHacks</u>, a 48-hour hackathon, attracting students across <u>3 UofT campuses</u>Host <u>workshops</u> on web development, LeetCode, AI, and quantitative tools (MATLAB, SageMath, LaTeX, etc.)	May 2025 – Present Toronto, Canada
Standard Operation Procedure Intern TRG International (Full-time) <ul style="list-style-type: none">Created a <u>version control tool</u> for Word documents using Flask to reduce manual review effort by <u>25%</u>Notified <u>150+ employees</u> of events by developing a Power Virtual Agent, reducing communication time by <u>40%</u>Automated geocoding of <u>100+ addresses</u> using Python and researched relevant geospatial resourcesRepresented TRG at <u>Greenwich Career Fair</u>, achieving "Most Interactive Company" title with <u>200+ applicants</u>	May 2025 – August 2025 Ho Chi Minh, Vietnam
Design Technology Ambassador British International School <ul style="list-style-type: none">Facilitated <u>3 departmental welcoming events</u>, introducing <u>120+ parents and students</u> to Design TechnologyShowcased engaging presentations and <u>3D CAD softwares</u>, including aluminum die-casting <u>activities</u>	November 2024 – May 2024 Ho Chi Minh, Vietnam
Computer Science & Math Mentor University of Toronto & British International School <ul style="list-style-type: none">Conducted weekly <u>tutoring sessions</u> for first-year students in Computer Science (OOP and DSA) and Math (proofs)Turned complex concepts into digestible ideas, improved average grades by <u>15%</u>, received <u>100% positive feedbacks</u>	September 2022 – May, 2025 Toronto, Canada

Club Activities

Project Lead @ UofT Blueprint <ul style="list-style-type: none">Cooperate as a team to build <u>custom software solutions</u> for social good	August 2025 – Present
Workshop Lead @ Ignition Hacks V6 <ul style="list-style-type: none">Plan <u>technical workshops</u> on Mapbox technologies for a 36-hour hackathon with <u>600+ anticipated participants</u>	July 2025 – Present
Co-President @ Create and Care <ul style="list-style-type: none">Led team of <u>8</u> to teach <u>20 students</u> product design; sold at <u>3 events with 2,000+ guests</u>, generating <u>\$1,200 revenue</u>	September 2022 – January 2024

Projects

UTM-Live (in progress)	Python (Django), Mapbox GL, PostgreSQL (Supabase), AWS (S3)	Source Code
<ul style="list-style-type: none">Make an interactive <u>3D full-stack application</u> for UTM students to explore study spotsEnhance UX with <u>real-time dynamic lighting/weather effects</u> and seamless mouse interactionsManually modeled <u>80+ campus locations</u> using Mapbox GL and custom GeoJSON dataSecure user access with JWT-based auth and Django session		
Image Gallery	Python (FastAPI), AWS (EC2, S3, CloudFront, Lambda, DynamoDB), Postman	Source Code
<ul style="list-style-type: none">Built a <u>serverless image gallery</u> with real-time uploads, using S3 and DynamoDB for storage/metadataSet up <u>global caching</u> using CloudFront CDN. Lowered the average images load time from <u>220ms to 35ms</u>Compressed client-side images using Canvas API and reduce upload payloads by <u>60%</u>Tested RESTful API endpoints with Postman and automated expired file cleanup with Lambda		
Job Hunter	Python (Django), PostgreSQL (Supabase), AWS (EC2), NPTK, Matplotlib	Source Code
<ul style="list-style-type: none">Scraped and aggregated <u>100+ job postings</u> from LinkedIn, Indeed, and Google using DjangoEngineered a <u>cover letter generator</u> using keyword extraction and NLP, saving users <u>90%</u> of manual writing timeVisualized market trends using Matplotlib and Chart.js, identifying top in-demand tech skills		
Youtube as a Service	Python, Tailwind, Google Cloud, OpenCV, Numpy	Source Code
<ul style="list-style-type: none">Created a pipeline to compile <u>files into Youtube videos</u>, allowing <u>unlimited storage space</u> and <u>lossless decoding</u>Produced compression-tolerant algorithm, achieving <u>99.9% accuracy</u> in bit-level file recoveryIntegrated frame optimization, resolution tuning, and error correction for high-resolution files		