

Alexander Li

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EDUCATION

University of Waterloo

Bachelor of Computing and Financial Management (BCFM)

Waterloo, ON

Sep. 2025 – Present

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, Swift, Lua, Racket, MATLAB, SQL, HTML/CSS, LaTeX

Machine Learning & Data: TensorFlow, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, SciPy

Frameworks: React, Next.js, Node.js, Express.js, Discord.js, Flask, React Native, SwiftUI, Tailwind CSS, Streamlit

Cloud & Databases: Google Cloud, Kubernetes, Docker, GitHub Actions, PostgreSQL, Firebase, Supabase

Developer Tools: Git, Postman, Apache Airflow, Selenium, Chromium, Tinkercad, AutoCAD, Bloomberg Terminal (BQNT)

WORK EXPERIENCE

Finance Developer

Quintessence Wealth

Toronto, ON

May 2026 – Present

- Optimizing internal infrastructure for the trades team, improving reliability and execution efficiency of trading workflows.
- Developing quantitative tools using the Bloomberg Terminal to support investment research and decision making.

AI/ML Engineer

AIQ Labs LLC

Waterloo, ON

Mar. 2026 – Present

- Trained an AI model based on user preferences to suggest quizzes, improving content relevance and engagement.
- Integrated asynchronous REST APIs to fetch dynamic question banks and synchronize user streak data.

Software Engineer

ZMC

Vaughan, ON

Jul. 2024 – Dec. 2024

- Designed and developed a SwiftUI-based iOS application serving 100+ customers and gaining over 6,000+ impressions.
- Rebuilt the application for Android using Node.js, extending the platform's reach to a broader user base.
- Collaborated across weekly sprint cycles, resolving over 95% of reported issues prior to release milestones.

STEAM Instructor

City of Brampton

Brampton, ON

Oct. 2022 – Sep. 2025

- Delivered coding and engineering instruction to 20–30 students per class across 100+ instructional hours.
- Developed curriculum to foster interest in STEM fields and mentored students in debugging code.

PROJECTS

invisibilis | Lua, Roblox Studio | Best Game Mechanic @ AngelHacks 2023

Dec. 2022 – Present

- Developed a Roblox horror game prototype visited by 10,000+ players, contributing to 100,000+ visits across all games.
- Engineered lidar based visibility mechanics and optimized game logic and rendering loops.

QuantBot | C++, PostgreSQL, Redis, Docker | Best Trader Bot @ Hack The 6ix

Jul. 2026 – Aug. 2026

- Placed 1st out of 250 participants by building trading bot for a prediction market during the hackathon
- Designed a central limit order book and matching engine to price and settle binary outcome contracts in real time.

SnaipShot | Python, Streamlit, Arduino, Cloudflare | Best Use of AI @ Hack the Valley 9

Oct. 2024 – Nov. 2024

- Built a data driven dashboard aggregating real time API streams and structured datasets for analysis and visualization.
- Implemented low latency text to speech and ML based summarization pipelines with sub 500ms response time.
- Evaluated model outputs across 50+ test scenarios, achieving approximately 85% contextual accuracy.

saight | Python, OpenCV, Tensorflow | 1st Place @ DeltaHacks X

Jan. 2024 – Feb. 2024

- Implemented a cv model achieving approximately 91% object recognition accuracy using TensorFlow and OpenCV.
- Reduced end to end latency by roughly 35% through optimized offline speech-to-text processing and model inference.
- Enabled hands free interaction via voice commands, supporting 100+ unique object queries during demonstrations.

LEADERSHIP & EXTRACURRICULARS

President / VP of Information Technology

JA Company Program

Brampton, ON

Oct. 2021 – Jun. 2025

- Led the team through the full business lifecycle, managing the company website and technical support.
- Generated over \$1000 in revenue and paid back the investors with interest after the term.
- Resolved technical issues regarding site functionality and payment processing for customers.

AWARDS

1st Place: Formula Null (UW '25), DeltaHacks X (McMaster '24), RythmHacks (UW '23), MayField Hacks ('23)

2nd / 3rd Place: Ignition Hacks v4 ('24), WolfHacks ('24)

Special Awards: Best Quant Trading Bot (Hack the 6ix '26), Best AR/VR (Incubator Hacks '24), Best AI/ML (HTV9 '24), Best Game Mechanic (AngelHacks '23)

Other: JA IT Leadership Finalist ('22–'23), 2× Best Debate Speaker ('22–'24), Best Table Topics Speaker ('21–'22)