

ALEXANDER KHADRA

778-723-8022 | alex.khadra@mail.utoronto.ca | LI: [alex-khadra](#) | GitHub: [alexkhadr](#)

EDUCATION

University of Toronto

Master of Mathematical Finance

- cGPA 3.9/4.0

Toronto, Canada

Aug 2025 – Jul 2026

ADIA (Abu Dhabi Investment Authority) LAB Summer School

Summer Program in Sustainable AI

Shanghai, China

Jul 2025 – Aug 2025

University of British Columbia

Bachelor of Science (Major in Mathematics and Economics)

Vancouver, Canada

Sep 2019 – May 2024

INDUSTRY CERTIFICATIONS

Passed CFA Level I; Candidate Level II

2025

Bloomberg Market Concepts

2025

WORK EXPERIENCE

RBC Capital Markets

Quant Analyst Intern

Toronto, Canada

Jan 2026 – Apr 2026

- Implemented model-driven valuation of swaps and fixed income instruments by integrating market curves and discounting cash flows, contributing to pricing accuracy and daily P&L processes
- Automated daily PnL calculations and reporting delivered directly to traders, improving transparency and timeliness.
- Investigated unexpected PnL movements by decomposing effects from market moves, accruals, and system behavior.

Bank of Canada

Research Assistant

Ottawa, Canada

Jul 2024 – Jul 2025

- Developed and refined asset pricing models to analyze liquidity premiums, isolating their impact from other pricing factors. Demonstrating an annual return spread of 5.91% between the least and most liquid portfolios, after controlling for confounding variables.
- Modelled how the decline in average U.S. inflation from 8% to under 3% (1983 – 2001), along with falling mortgage rates, explains over 50% of the rise in household mortgage debt.

Boeing Co.

Data Science Intern

Vancouver, Canada

May 2023 – Dec 2023

- Constructed and re-trained various predictive maintenance models by retraining RoBERTa. Predicted which components of aircrafts needed repairs based on written reports at 95% accuracy.
- Developed predictive model to forecast active runways and their direction 24 hours in advance with approximately 70% accuracy. Integrated diverse data sources including weather conditions, runway usage, and special events.

UBC Data Science Institute (BC Cancer)

Data Science Intern

Vancouver, Canada

Jan 2023 – Apr 2023

- Created natural language processing (NLP) models using ClinicalBERT to identify cancer characteristics or related elements from medical reports with 90% accuracy.

Deloitte (Ouest Business Solutions)

Data Analyst Intern

Vancouver, Canada

May 2021 – Aug 2021

- Developed dashboards for clients to view their financials (accounts payable/receivable).

SKILLS

Technical Skills: Python, SQL, Excel, Java, R, GitHub, Bloomberg, Tableau, PowerBI, Stata, Terminal Services

VOLUNTEER EXPERIENCE

RiskLab

Quant Researcher

Toronto, Canada

Jan 2026 – Apr 2026

UBC Data Science Club

Data Scientist

Vancouver, Canada

Sep 2022 – Apr 2024