

Caleb Oravec

Toronto, Ontario, Canada | +1-(647)-703-0307 | caleboravec@gmail.com

EDUCATION

University of Waterloo, Bachelor of Computer Science, Honours

Waterloo, Canada | Sep 2020 – Aug 2025

- GPA: 'A' Average | Coursework: Probability – Statistics – Numerical Computation – Optimization – Artificial Intelligence

Wilfrid Laurier University, Bachelor of Business Administration, Honours

Waterloo, Canada | Sep 2020 – Aug 2025

- GPA: 'A' Average | Coursework: Options, Futures, & Swaps – Macroeconomic Analysis – Financial Analysis I & II

WORK EXPERIENCE

Ontario Teachers Pension Plan (OTPP), Quantitative Strategies & Research Intern

Toronto, Canada | Sep 2024 – Dec 2024

- Accepted offer. Expected responsibilities include developing and analyzing single-name equity volatility strategies.

Scotiabank

Sales & Trading Analyst – Commodity Derivatives Trading Desk

Calgary, Canada | Jan 2024 – Apr 2024

- Developed an understanding of market making, including strategies for exiting positions and setting bid-ask spreads
- Authored a daily 500-word morning update for traders and clients on crude oil and natural gas markets analysing factors driving daily price changes such as geopolitics, weather, macroeconomics, pipeline disruptions, and inventory levels
- Automated EIA crude oil and natural gas inventory report distributions to traders and clients using VBA, Pandas, and bs4
- Improved a Python program comparing week-over-week ownership changes in Alberta's carbon credit market
- Researched the LNG Canada startup timeline in Kitimat, BC, comparing previous LNG plant timelines and infrastructure to update demand forecasts for use in the natural gas traders' pricing models
- Assessed the impact of a new chemical plant in Alberta on ethane demand, translating the incremental ethane demand into an expected influence on natural gas prices by investigating spare domestic processing and import capacity

Sales & Trading Analyst – Risk Solutions Structuring Desk

Toronto, Canada | Jan 2023 – Apr 2023

- Developed and applied understanding of exotic FX and interest rate options
 - Pricing and designing exotic FX options structures, many utilizing multiple knock-in and knock-out barriers, accumulators, and digital options to tailor Options Greeks exposures
 - Prepared educational materials – including strike charts, scenarios, and explanations – introducing new interest rate product offerings to clients, generating over \$1 million in sales commissions
- Created a suite of tools ensuring more efficient and effective desk operations
 - Built an Average-Rate Forward pricer in Excel with the Bloomberg API, pricing over 20 trades during my internship
 - Automated the creation and updating of graphs, client presentation decks, and trade term sheets using VBA, decreasing preparation time by 80% in a process now used across multiple offices in Scotiabank's FX business
 - Leveraged Python for Monte Carlo simulations of FX spot movements, providing insight into the theoretical performance of various FX hedging structures
 - Created swaptions volatility database with Excel VBA, producing customizable ATM and smile charts for client pitches

PROJECTS

NHL Trade Proposal Generator (Python)

- Computes player values by predicting future performance, salary, and hockey statistics like Wins Above Replacement (WAR)
- Proposes fair trades between up to four teams while meeting salary cap requirements and satisfying team positional needs

Option Value Calculator (VBA)

- Calculates the value of a European option on an equity paying no dividends with the Black-Scholes model
- Extended to American options with Monte Carlo simulations and a binomial tree to account for early exercise
- Options Greeks are derived for each contract, as well as spot ladders showing possible delta and gamma positions
- Generates effective strike and PnL charts for option strategies using up to four different contracts

LEADERSHIP

Laurier Trading Group, President

Waterloo, Canada | Sep 2022 – Present

- Organize and coordinate club operations and activities, including trade simulation and networking events
- Manage a paper portfolio split across Equities, Fixed Income, Currencies, and Commodities while teaching 12 analysts

Varsity Soccer, Captain

Toronto, Canada | Sep 2018 – Apr 2020

- Captain in both grade 11 and 12, leading the team to a National Championship title in grade 12

ADDITIONAL INFORMATION

Coding Languages: Python (Pandas, NumPy), C++, and VBA

Business Programs: Bloomberg Terminal & API, Excel, PowerPoint

Interests: Chess, Hockey Statistics, Reading, Wood Carving, Soccer, Philosophy (Stoicism)