

ROBIN BILODEAU

Ottawa, Ontario, Canada

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EDUCATION

University of Ottawa

Ottawa, Ontario, Canada

Bachelor of Science in Computer Science and Mathematics

Sep 2024 – Apr 2028

- **Relevant Courses:** Intro to Computing 1, Intro to Computing 2, Linear Algebra, Discrete Mathematics for Computing, Business Analytics, Statistics for Management

WORK EXPERIENCE

Scotiabank - Global Banking and Markets

Toronto, Ontario, Canada

Incoming Quantitative Analyst Intern

Sep 2025 – Dec 2025

Westmount Capital Partners

Ottawa, Ontario, Canada

Investment Banking Intern

Jul 2024 – Nov 2024

- Assisted in debt structuring for a 10 million dollar convertible note and 2 million dollar bridge loan
- Participated in market research and prepared pitch materials for capital raising, resulting in 250 million dollars of commitments

RESEARCH EXPERIENCE

Uncertainty-Aware Statistical Extensions for HDBSCAN Clustering

Ottawa, Ontario, Canada

Undergraduate Researcher

Apr 2025 – Present

- Developed a Monte Carlo sampling framework to repeatedly adjust probability rank matrices, yielding statistically stable core-distance estimates for clustering high-noise data leading to reduced sensitivity to outliers and improved cluster detection reliability
- Implemented a fast Fourier-based deconvolution estimator to recover underlying data distributions from noise-contaminated observations, enhancing core distance estimates for robust HDBSCAN clustering

PROJECTS

OrderBook Implementation for Financial Markets

- Developed a real-time order book system using FastAPI to handle order placement, trade execution, and order cancellation with low-latency API responses.
- Implemented Enums (StrEnum) to enforce consistency in order types (LIMIT, MARKET, FOK) and order sides (BUY, SELL), improving code maintainability.
- Integrated Yahoo Finance API for real-time price fetching and enabled seamless interaction between the back-end and front-end via CORS and static file hosting.

LEADERSHIP AND ACTIVITIES

IMC Prosperity Trading Competition

Ottawa, Ontario, Canada

Team lead

Apr 2025 – May 2025

- Developed and implemented multiple algorithmic trading strategies, including market making, an ETF mispricing strategy using the Kelly criterion, and a Black–Scholes neutral delta options strategy
- Engineered robust, adaptive algorithms to exploit market microstructure inefficiencies and option pricing dynamics, showcasing advanced capabilities in risk management, statistical modeling (using NumPy and similar libraries), and algorithm optimization across diverse asset classes

SKILLS, LANGUAGES, INTERESTS

- **Languages:** English (Native speaker), French (Native speaker)
- **Programming:** Python, Java, Typst
- **Tools:** Microsoft Word, Git, Visual Studio Code, Canva, Jupyter
- **Libraries:** matplotlib, numpy, Scikit-learn, pandas, Tkinter, yfinance
- **Athletics:** Boxing, Hockey, Soccer, Volleyball