

Onur Gul

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EDUCATION

McGill University, Faculty of Science

Montreal, QC

Bsc, Mathematics and Computer Science

Aug 2022 - Apr 2026

- Applied Machine Learning, Data Structures and Algorithms, Operating Systems, Computer Systems, Software Systems, Object Oriented Programming, Quantitative Risk Management, Probability, Statistics (1-2), Calculus (1-3), Abstract Algebra (1-2), Real Analysis, Statistical Computing, Differential Equations, Numerical Analysis, Math Logic, Theory of Computation

TECHNICAL SKILLS

- **Technologies:** Pandas, React.js, Next.js, Git, Unix
- **Languages:** Python, Ruby (on Rails), Java, Javascript, PyTorch, C, HTML/CSS, SASS, PHP, R,
- **Machine Learning:** NLP, MLP, CNN, RNN, Transformers, Deep Learning, Hyperparameter Tuning, Data-Preprocessing

WORK EXPERIENCE

National Bank of Canada

Montreal QC, Canada

Quantitative Developer Intern - ETF & Electronic Trading Team: Algorithmic Trading

September 2025- Present

- Developed an automated pipeline leveraging SEC EDGAR filings to extract and summarize key info for financial forms.
- Built a regression-driven ranking algorithm that scores filings by estimated market impact, highlighting those most likely to present bullish or bearish signals.

Shopify

Montreal QC, Canada

Software Engineering Intern: CX Growth RnD

May 2025 - August 2025

- Developed an AI-powered phone assistant for Shopify merchants using **Python** and the Google Gemini API.
 - Now live and deployed across multiple support lines.
- Led a data migration of over 30000 internal documents; leveraged **Ruby** to create scripts to automate the process.
- Built numerous internal data dashboards that automatically notify developers when Growth RnD services encounter issues.

Hypekraft Digital Ltd.

Vancouver BC, Canada

Software Engineer Intern

May 2024 - Aug 2024

- Using **JavaScript**, I built calculators for financing and leasing, implemented smooth scrolling, static images, and other interactive features to enhance user experience and increase conversion rates.
- Designed and implemented responsive websites based on custom **Figma** prototypes, leveraging microdata integration to optimize website performance for real estate portfolios, improving user targeting and significantly increasing sales inquiries.

Hypekraft Digital Ltd.

Vancouver BC, Canada

Web Development and Marketing Intern

May 2023 - Aug 2023

- Optimized multiple client websites, leveraging **HTML**, **CSS**, and **SASS** to improve **UX/UI** elements.

Projects

Machine Learning Stock Correlation Dashboard - Second Place, National Bank Quantitative Finance Challenge - McHacks

- Developed a frontend using React to create interactive visualizations of stock performance, enabling clear analysis of trends across five unknown stocks with data recorded at microsecond intervals over millions of lines.
- Trained a Recurrent Neural Network (RNN) using PyTorch to predict stock price movements, achieving ranges of 80–90% accuracy on testing and training data provided from National Bank.
- Designed a momentum-based pairs trading algorithm using Pearson correlation analysis to predict and rebalance correlated stocks, optimizing profitability.
- Access the project here: <https://c3308843.volatility-vision.pages.dev/>

Extracurriculars

McGill Varsity Athlete

Montreal, QC

Competitive Swimming

September 2011 - Present

- Competed at world class competitions like the FINA Swimming World Cup, and Canadian Olympic Trials
- U SPORTS Swimming - Men's Team, Third Place - (University Nationals) (Under McGill)
- Enhanced punctuality and discipline by balancing school with extensive training, with 14+ practices per week.
- Elected male-representative team captain of club swim team, mentoring 200+ swimmers, and leading national level group.

McGill Quantitative Research Club mcgillqr.com

Montreal, QC

Founder, President, Head of Algorithmic Trading

October 2024 - Present

- Created McGill's first quantitative finance club to conduct student-led research in areas such as algorithmic programming, data science, and risk management.

Pharmahacks Hackathon

Montreal QC, Canada

President, Previous Vice President Web Development

October 2024 - Present

- Head of development of the hackathon's website using React.
- Coordinate sponsorship, logistics, and internal operations while supporting team leads across all departments.