

# Onur Gul

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## EDUCATION

**McGill University, Faculty of Science**

**Montreal, QC**

**Bsc, Mathematics and Computer Science GPA: 3.86/4.00, CGPA: 3.44**

*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,

## TECHNICAL SKILLS

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

## EXPERIENCE

**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.
- Conducted comprehensive SEO audits and implemented effective strategies, improving search engine rankings for client websites.
- Authored data-driven articles optimized for SEO, amplifying web traffic and customer engagement.

**Pharmahacks Hackathon**

**Montreal QC, Canada**

*Vice President of Web Development*

*Oct 2024 - Present*

- Head of development of the hackathon's website using React. ([pharmahacks.com](http://pharmahacks.com))
- Improved the development process by implementing reusable components and modular code, ensuring rapid updates and scalability for future events.

## 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://mc-hacks12-topaz.vercel.app/>

## Extracurriculars

**McGill Quantitative Research Club** [mcgillqr.com](http://mcgillqr.com)

**Montreal, QC**

*Founder, 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.
- Currently leading research and development on a machine learning-based algorithmic trading method, focused on predicting price movements for high-volatility securities and refining trade execution to enhance profitability.

**McGill Varsity Athlete**

**Montreal, QC**

*Competitive Swimming*

*September 2023 - Present*

- Attended Swimming Canada World Championship/Olympic Trials.
- USPORTS Swimming - Men's Team, Third Place - (University Nationals)
- Enhanced punctuality and discipline by balancing school with extensive training, consisting of 14 practices per week in high school and 10+ practices per week at McGill.
- Elected male-representative team captain of club swim team, leading relay teams to national-level success and mentoring 200+ swimmers on techniques, mental engagement, and team leadership.