

# COLIN GOULD

20cvwg@queensu.ca | (647) 624 - 6015 | [LinkedIn](#) | [GitHub](#) | [Portfolio Website](#) | Toronto, ON

## PROFESSIONAL & LEADERSHIP EXPERIENCE

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### RBC Capital Markets

Toronto, Canada

*QTS Software Developer Intern – Global Equity & Derivatives Tech Team*

2024 – 2025

- Built and maintained trader-facing applications supporting daily volatility surface fitting and options pricing workflows.
- Designed tooling to process millions of log files in under five minutes, improving ingestion efficiency by more than 95%.
- Developed a custom C++ telemetry SDK and led onboarding across multiple teams.

### QMIND – Queen’s Machine Learning Club

Kingston, Canada

*Director of Design / Project Lead*

2025 – present

- Leading and mentoring a pod of Project Leads, providing both technical and leadership guidance.
- Additionally leading a group of 5 team members on a project of my own, managing the vision, and execution of the project.

### Queen’s Commerce and Engineering Environmental Conference (CEEC)

Kingston, Canada

*Sponsorship Director*

2023 – 2024

- Lead for sponsorship team. Set goal of \$40,000, up 33% from previous year, to enable 50% reduction of participation fee.
- Facilitated weekly meetings to manage four sponsorship team-members; delegate tasks and communicate updates.

*Sponsorship Coordinator*

2022 – 2023

- Worked with a team of four to research and confirm corporate sponsors; surpassed goal of \$30,000 in funding.

### Camp Wanapitei

Temagami, Canada

*Wilderness Canoe Trip Leader*

2023 – Present

- Led and mentored 12–17-year-olds, facilitating safe and fun month-long overnight trips in Northern Canada.
- Proactively managing risk, ensuring safety and taking decisive action in a remote, high-risk environment.

## TECHNICAL PROJECTS HIGHLIGHTS ([see all](#))

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### Compile: An AI News Application ([Live Site](#)) | *Next.js, Python (DSPy), Supabase, Pinecone*

- Building an AI news and media aggregator that curates articles based on user preferences and interests.

### Hack AI Winner – Chameleon ([Devpost](#)) | *JavaScript (Next.js), Python (FastAPI, LangGraph), Supabase*

- Built an AI workflow application for content creators that repurposes long-form content into short-form, platform-optimized posts. Built from scratch in 24 hours, winning Best Retrieval Project at Hack AI 2025.

### Mechanistic Interpretability for LLM Jailbreak Defense ([Research Paper](#)) | *Python, SAELens, Gradio*

- Research project showing novel applications of mechanistic interpretability and feature steering to LLM jailbreak defense.
- Successfully discovered “refusal” features in Gemma-2-2b-IT and prevented jailbreaking by boosting these features.

### Reinforcement Learning Arbitrage Trading ([Live Demo](#), [GitHub](#)) | *Python (Flask), PyTorch Geometric, JavaScript (React)*

- Implemented a novel method for approximating NP-Hard problems using GNNs and Monte-Carlo Tree Search.
- Built an interactive web-app which connects to the Kraken API and displays output from the model.

## EDUCATION

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### Queen’s University – Smith School of Engineering and Applied Science

Kingston, Canada

*Bachelor of Applied Science in Applied Mathematics and Computer Engineering, 2025 Candidate*

2021 – Present

- 3.90 GPA, Dean’s List Standing (2021 – 2024), Principal’s Scholarship for Academic Excellence
- Coursework: Data Structures (C), Algorithms, Software Development (C++), Databases (SQL), OOP (Java), Probability

## ADDITIONAL INFORMATION & INTERESTS

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**Programming Languages & Libraries:** C#/.NET, Python (Pandas, NumPy, TensorFlow, PyTorch), C/C++, JavaScript (React, Angular, Node, Express, Sequelize), SQL

**Canoe Tripping:** Adventure canoe tripping enthusiast, including a 1200km, 52-day trip through the NWT and Nunavut.

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