

COLIN GOULD

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PROFESSIONAL & LEADERSHIP EXPERIENCE

RBC Capital Markets	Toronto, Canada
<i>Software Engineering Intern – Global Equity & Derivatives Tech Team</i>	<i>2024 – 2025</i>
<ul style="list-style-type: none">Built, deployed and maintained trader-facing .NET applications supporting daily volatility surface fitting and pricing workflows.Designed tooling to process millions of pricing session log files in <5 minutes, improving ingestion efficiency by >95%.Developed a C++ telemetry SDK to migrate pricing processes away from text-file logging, led onboarding across multiple teams.	
QMIND – Queen's Machine Learning Club	Kingston, Canada
<i>Director of Design</i>	<i>2025 – present</i>
<ul style="list-style-type: none">Overseeing 20 students across 4 industry projects in healthcare, data and law. Managing hiring, project planning and execution.Leading a collaboration with Project X Ltd., a Toronto-based AI consultancy, to develop a multimodal marketing agent.	
Queen's Commerce and Engineering Environmental Conference (CEEC)	Kingston, Canada
<i>Sponsorship Director</i>	<i>2021 – 2024</i>
<ul style="list-style-type: none">Led sponsorship team. Hit goal of \$40,000, up over 33% from previous years, to enable 50% reduction of participation fee.	
Camp Wanapitei	Temagami, Canada
<i>Wilderness Canoe Trip Leader</i>	<i>2023 – Present</i>
<ul style="list-style-type: none">Led and mentored 12–17-year-olds on month-long wilderness trips; managed risk, safety and decisive action.	

TECHNICAL PROJECT HIGHLIGHTS (see all)

Post-Training Research (Engineering Capstone)	
<ul style="list-style-type: none">Post-training an SLM to be a grade-school math tutor. Research supported by a \$5000 grant from Thinking Machines.	
Compile: A Personalized AI News Assistant (Live Site) <i>Next.js, Python (DSPy, Stagehand), Supabase, Pinecone</i>	
<ul style="list-style-type: none">Built a full-stack AI platform that processes thousands of articles each day to deliver custom news stories to each user.Designed and implemented a custom web-scraping system and an ingestion pipeline with time and theme-aware clustering.Developed intelligent RAG pipelines using hybrid search with query expansion, reciprocal rank fusion and reranking stages.	
Mantis – Hack The North Finalist for Best Dev Tool (Devpost, PyPI) <i>Python (Playwright), Cohere/Gemini APIs</i>	
<ul style="list-style-type: none">Built an AI-powered tool that crawls and manipulates web apps, analyzing each state to detect and describe UI bugs.Delivered a dashboard with bug deduplication, and GitHub Actions integration for automated QA after deployment.	
Chameleon – Hack AI Winner for Best AI Retrieval (Devpost) <i>JavaScript (Next.js), Python (FastAPI, LangGraph), Supabase</i>	
<ul style="list-style-type: none">Built an AI workflow application for content creators that repurposes long-form content into short, platform-optimized posts.Orchestrated transcription, socials scraping, and post generation with LangGraph and Gemini.	
Mechanistic Interpretability for LLM Jailbreak Defense (Research Paper) <i>Python, SAELens, Gradio</i>	
<ul style="list-style-type: none">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.	

EDUCATION

Queen's University – Smith School of Engineering and Applied Science	Kingston, Canada
<i>B.A.Sc., Applied Mathematics and Computer Engineering, 2026 Candidate</i>	<i>2021 – Present</i>
<ul style="list-style-type: none">3.90 GPA, Dean's List Standing (2021 – 2025), Principal's Scholarship for Academic Excellence.	

ADDITIONAL INFORMATION & INTERESTS

Programming Languages & Tools: JavaScript (Next, React, Angular, Node, Express, Sequelize), C#/.NET, Python (PyTorch, Flask, FastAPI, LangGraph), C/C++, SQL, Dev Tools (Git/Github, Jenkins, Supabase, Pinecone, Vercel, Temporal)

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