COLIN GOULD

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EDUCATION

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

PROFESSIONAL & LEADERSHIP EXPERIENCE

RBC Capital Markets **Toronto, Canada**

QTS Software Developer Intern – Global Equity & Derivatives Tech Team *2024 – Present*

- Developing enhancements and additions to the in-house analytics platform, using JavaScript (Angular, Node.js, Express, Sequelize) and MSSQL.

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 10-day overnight trips in Northern Ontario.
- Proactively managing risk, ensuring safety and taking decisive action in a remote, high-risk environment.

Program Director *2024*

- Scheduled in-camp programming for 100+ campers. Main point of contact for all trip leaders to address any concerns.

TECHNICAL PROJECTS

QMIND Project – Reinforcement Learning Arbitrage Trading (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.
- Presented our results as a paper submission to CUCAI, the largest Canadian undergraduate conference for AI.

MealMap: AI Meal Recommendations (GitHub) | *Python (FastAPI), PyTorch Geometric, JavaScript (React)*

- Built a full-stack meal planning app using React.js and FastAPI, placing 4th at the Queen's Engineering Challenge.
- Implemented a user-collaborative filtering recommendation algorithm, achieving a >0.50 precision@10.

Hack The Globe – Bed Match Pro (GitHub, Live Demo) | *Python (Flask), JavaScript (React)*

- One of 300 out of >2000 applicants accepted to Hack The Globe, a global hackathon and case competition.
- Technical lead for the team's product, a patient-bed matching platform designed to automate this critical process for ERs.

Camp QMIND Hackathon (Kaggle) | *Python, TensorFlow, Pandas, NumPy, SciKit-Learn*

- Cleaned and prepared breast cancer data, using Pandas, to classify whether a patient was likely to have a recurrence.
- Built a neural network in Python, using Keras, achieving 75% test-set accuracy.

ADDITIONAL INFORMATION & INTERESTS

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

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

Ski Racing: Downhill ski raced for 8 years, 2012-2020, represented Ontario at the Eastern Can-Ams and Whistler Cup.