

ETHAN SOLNIK

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EDUCATION

- Bachelor of Applied Mathematics and Computer Engineering**, Queen's University **2023 – 2027**
- GPA: 3.97/4.00 with Dean's Scholar Distinction
 - Expected Graduation: May 2027
- Bloomberg Market Concepts (BMC) Course**, Bloomberg for Education **2024**

PROFESSIONAL EXPERIENCE

- Incoming Quantitative Trading Analyst**, BMO, Toronto, ON **Summer 2026**
- Global Wealth and Asset Management Intern**, Manulife, Toronto, ON **Summer 2025**
- Optimizing market data strategy through vendor contract analysis, usage audits, and Power BI reporting
 - Deploying an Agentic RAG with OCR to parse legacy contracts and validate terms across MSAs and addendums
- Data Analyst**, Branch Energy, Toronto, ON **Summer 2024**
- Developed a customer onboarding application using Python and SQL, reducing data aggregation time by over 2x
 - Led a billing system migration for a client base of 1,200+ accounts, using SQL, CSV, and JSON data formats
 - Analyzed ML-driven DoD pricing forecasts to refine energy arbitrage and hedging strategies
- Software Developer and Marketing Intern**, Supernatural Longevity, Toronto, ON **Summer 2024**
- Created a multi-agent AI pipeline with OpenAI GPT-4 API and the Make Automation Tool to create blog content
 - Automated HTML-to-text parsing from RSS feeds, hierarchical task sequencing, and Google Docs API integration

EXTRACURRICULARS

- Co-Chair & Head of Quant Strategy - Queen's University Algorithmic Network & Trading Team** **2024 – Present**
- Directing club strategy, project ideation, recruitment, and industry partnerships
 - Developed a trading algorithm for the PO3 strategy using a Random Forest Classifier to identify SMT setups based on daily bias, FVGs, HTF PDAs, and liquidity, with backtesting via Alpaca API V2
- Computer Vision Engineer - Queen's University AI and Machine Learning Team** **2024**
- Created a road damage detection system using the YOLOv12 CNN, achieving 55% mAP
 - Built a full-stack application with React and Node.js for the frontend and Azure for the backend

PROJECTS

- Traffic Signal Coordination – Engineering Practice Module** **2024**
- Fine-tuned a consensus algorithm to increase traffic flow in Toronto by 25% using MATLAB and Python
 - Integrated geospatial libraries with road network datasets to optimize traffic signal coordination
- Social Media Platform – Data Structures and Algorithms** **2024**
- Built a 10,000-user social media network in C programming language

ADDITIONAL INFORMATION

- US and Canadian Citizenship – Work Visa Not Required
- Languages/Libraries: Python, C, C++, Java, MATLAB, SQL, VHDL | Pandas, PyTorch, TensorFlow, React, Node.js
- Competitions: Jane Street Live Market Forecasting, IMC Prosperity 3, FIAM Asset Management, Quant Challenge
- Hobbies: Guitar for 12+ years, competitive soccer and hockey, weightlifting, and computer-building