

Cameron Beneteau

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EDUCATION

McMaster University

Sep 2019 – Apr 2025

Bachelor of Mechatronics Engineering and Management (Software Engineering Track) | GPA: 4.0/4.0.

Hamilton, ON

WORK EXPERIENCE

Quantitative Developer Intern

May 2024 – Aug 2024

Royal Bank of Canada (RBC) Global Asset Management

Toronto, ON

- Reduced daily model runtimes by 75% in Python and MATLAB by optimizing core algorithms and data pipelines.
- Generalized backtests with configuration files supporting 100s of custom parameters, accelerating research workflows.
- Built ETL workflows using Python and Spark to enable ML models like Gradient Boosted Trees and Neural Networks.

Software Engineer Intern

Sep 2022 – Apr 2024

Caseware

Toronto, ON

- Drove 0 to 1 development of a feature flag app using Angular, NestJS, Redis, and DynamoDB, empowering over 500 developers to toggle 100s of production features in real-time, boosting deployment speed and reducing downtime.
- Rebuilt CI/CD workflows, reducing pipeline runtimes by 10% and saving \$15,000+ in monthly cloud compute spend.
- Automated Mac/Windows dev setup via Bash scripts, cutting onboarding time from 2 days to under 15 minutes.

Software Engineer Intern

May 2022 – Aug 2022

Royal Bank of Canada (RBC) Capital Markets

Toronto, ON

- Won 1st place in algo trading competition by designing and presenting a Python-based ML strategy using Backtrader.
- Enhanced frontend features with JavaScript and jQuery, boosting site engagement to 60,000+ unique daily page views.
- Refactored backend processes, cutting publishing time by 50%, accelerating content updates for authors and developers.

Software Engineer Intern

May 2021 – Aug 2021

CenterLine (Windsor) Limited

Windsor, ON

- Revamped ordering app using React and TypeScript, boosting efficiency and scalability for 1000+ orders daily.
- Optimized back-end queue processes using SQL and Visual Basic, cutting end user wait times from hours to seconds.
- Engineered REST APIs to extract data in an efficient manner, improving UX and data visualization techniques.

CLUBS AND LEADERSHIP

Software Engineer

Sep 2024 – Present


McMaster Formula Electric Racing Team 

Hamilton, ON

- Implemented a custom CI/CD pipeline for C++ and CMake, automating builds and tests to accelerate development.
- Enabled remote ECU firmware updates via Raspberry Pi and CAN bus, supporting instant over-the-air deployments.
- Built wireless data logging with real-time visualization of vehicle dynamics and system diagnostics using Python.

Head Quantitative Developer


Sep 2023 – Present

McMaster DeGroot Finance and Investment Council 

Hamilton, ON

- Architected a full-stack app using React, Python, AWS RDS, and SQL to track and analyze the performance of a \$150K live investment portfolio, supporting a team of 200+ students with granular metrics to inform investment decisions.
- Developed and backtested algorithmic trading strategies (pairs trading, volatility, ML-based) in Python, achieving a 14.5% average return over 4 months, consistently ranking top 10 in the Quant League University trading competition.

PROJECTS

Assistive Hand  | Capstone | *C++, Python, Arduino, Computer Vision, Robotics*

Sep 2024 – Apr 2025

- Autonomous object handover system integrating computer vision and object detection with an Xbox Kinect V2 and 6-degree-of-freedom robotic arm, enabling real-time spatial recognition and achieving 15 mm positional accuracy.

Aligned.ai  | Hack the North Winner | *TypeScript, Python, React, Groq AI, Whisper, Cohere AI*

Sep 2024

- AI-powered platform enabling connections through real-time conversations and personality vector embeddings.

ProFinder Automation  | \$25K+ Revenue | *Python, Selenium, AWS EC2, AWS DynamoDB*

May 2021 – Present

- Founded and grew a SaaS platform automating LinkedIn outreach and lead generation for business owners, driving 30,000+ lead submissions, saving users 2+ hours daily, and generating \$25K+ in client revenue through user feedback.

TECHNICAL SKILLS

Languages: Python, C/C++, TypeScript/JavaScript, Java, SQL, Bash, MATLAB.

Technologies: Angular, React, Amazon Web Services (EC2, S3, DynamoDB, RDS), NodeJs, Docker, Terraform.

Concepts: Algo Trading, Databases, DevOps, Distributed Computing, Microservice Architecture, Operating Systems.