

Andy Craig

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Education

Queen's University

Class of 2024

First Class Honours, Bachelor's of Applied Science in Computer Engineering (GPA: 3.5 / 4.0)

Kingston, Ontario

- **Relevant Coursework:** Data Structures and Algorithms (C++), Distributed Systems, Data Analytics, Database Management Systems, Advanced Computer Architecture, Software Performance Engineering, Software Engineering

Experience

Ecobee

April 2022 – May 2023

Machine Learning and Data Engineering Intern

Toronto, Ontario

- Maintained production services within the Ecobee ecosystem, including ETL jobs (Apache Beam) and ML pipelines (Kubeflow).
- Engineered an end-to-end evaluation pipeline for a computer vision model, optimizing performance and accuracy for doorbell cameras.
- Implemented a Kubeflow pipeline for smoke/CO alarm detection, streamlining deployment and enhancing reliability.
- Developed a metrics API to monitor production services, ensuring SLO adherence and enabling proactive issue resolution.

Cactus App

September 2023 – April 2025

Co-Founder and Lead Developer

Kingston, Ontario

- Co-founded a cross-platform loyalty rewards app, architecting a complete ecosystem including mobile and web applications.
- Led full-stack development of a production-ready platform, implementing features like QR code point collection and analytics.
- Successfully exited the company for \$20,000 after 19 months, demonstrating strong product-market fit and technical execution.

IHS Markit

May 2021 – September 2021

Strategic Alliances Intern

Raleigh, VA

- Leveraged Python to streamline data processing, eliminating manual tasks for improved efficiency.
- Utilized Power Automate to automate email content extraction, reducing deal profiling time by 10 minutes per deal.
- Developed Python scripts to automate redundant record processing, saving approximately 30 hours across 3,000 entries.

Projects

Pursuit Labs - AI-Powered Talent Management Platform • *AI/ML, Full-Stack Development, Product Management, UI/UX Design*

- Co-founded and led technical development of AI-powered talent management solutions optimizing task allocation for mid-to-large-scale companies.
- Oversaw all technical components, including machine learning model development and UI/UX design specifications.
- Achieved 2nd place and secured \$5,000 funding at the 2021 Canadian Undergraduate Conference on AI (CUCAI), highlighting product innovation.

Workout Analysis App • *Swift, Tensorflow, YoloV8, Python, Flask*

- Led the development of WorkoutPal, an app utilizing YoloV8 for pose estimation and computer vision to enhance workout feedback.
- Designed and deployed an end-to-end ML pipeline serving model inference to a SwiftUI iOS app, hosted on AWS.

Technical Skills

Languages: Python, SQL, PHP, Swift, Java, C++, C, Go

Technologies: Google Cloud Ecosystem, Apache Beam, TensorFlow, PyTorch, Kubernetes, Docker, Airflow, Flask

Concepts: Machine Learning, Data Engineering, Artificial Intelligence, Cloud Computing, Distributed Systems, Data Science, Neural Networks, Agile Methodology