

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

ClearEstate

July 2024 – Present

Full Stack Software Engineer

Toronto, Ontario

- Develop and enhance features for ClearEstate's estate settlement platform, utilizing Laravel PHP and Vue.js for user-friendly ML solutions.
- Optimize the existing codebase for high performance and scalability through regular code reviews and refactoring.
- Collaborate with cross-functional teams to implement functionalities that streamline estate management and improve user experience.
- Utilize Git for version control and Jira for project management to coordinate development efforts and ensure timely delivery.

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 with customer and business applications.
- Led full-stack development of a production-ready platform, implementing features like QR code point collection and analytics dashboards.
- Successfully exited the company for \$20,000 after 19 months, demonstrating strong product-market fit and technical execution.

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.
- Implemented a Kubeflow pipeline for smoke/CO alarm detection, streamlining deployment and enhancing reliability.
- Developed a metrics API to monitor production services, ensuring adherence to SLOs and facilitating proactive resolution.

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 for optimizing task allocation systems.
- Oversaw all technical components, including model development, product specifications, and UI/UX design.
- Achieved 2nd place and secured \$5,000 funding at the 2021 CUCAI, demonstrating product innovation and early-stage success.

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

- Led the development of WorkoutPal, a workout analysis app utilizing YoloV8 for pose estimation and real-time feedback.
- Designed and deployed an end-to-end ML pipeline for 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