

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 using Laravel PHP and Vue.js for user-friendly solutions.
- Optimize the codebase to ensure high performance, scalability, and reliability through regular code reviews and refactoring.
- Collaborate with cross-functional teams, including product managers and designers, to implement functionalities that improve user experience.

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 (React Native) and business (Laravel, Vue.js) applications.
- Led full-stack development of a scalable platform, implementing features like QR code point collection, rewards management, and CI/CD pipelines using GitHub Actions.
- Successfully exited the company for \$20,000 after 19 months, showcasing 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 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 system reliability.
- Developed a metrics API to monitor services, ensuring adherence to SLOs and facilitating proactive issue resolution.

Projects

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

- Led the development of WorkoutPal, a workout analysis app utilizing YoloV8 for real-time feedback on form and performance.
- Designed an end-to-end ML pipeline serving model inference to a SwiftUI iOS app, hosted on AWS for scalability.

Pursuit Labs - Task Management AI • Prototyping, Business Development, UI/UX Design

- As part of a startup accelerator, led the development of an AI-powered task management platform for mid-to-large scale companies.
- Achieved 2nd place and secured \$5,000 funding at the 2021 CUCAL, demonstrating product innovation and early-stage success.

Technical Skills

Languages: Python, PHP, JavaScript, SQL, Swift, Java, C++, C
Technologies: Flask, Kubernetes, Docker, CircleCI, TensorFlow, PyTorch, Google Cloud Ecosystem, Apache Beam
Concepts: Agile Methodology, Cloud Computing, User Interfaces, Machine Learning, Artificial Intelligence, Data Engineering, Data Science, Distributed Systems