

# 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, leveraging Laravel PHP and Vue.js for scalable solutions.
- Optimize the existing codebase, ensuring high performance and reliability through regular code reviews and refactoring.
- Collaborate with cross-functional teams to implement functionalities that streamline estate management and enhance user experience.
- Utilize Git for version control and Jira for project management to coordinate development and ensure timely project 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 mobile and web applications.
- Led full-stack development of a production-ready platform, implementing features like QR code-based point collection and analytics.
- 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 in 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 enabling proactive issue resolution.

## Projects

### 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 for model inference to a SwiftUI iOS app, leveraging AWS for API hosting.

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

- As part of a startup accelerator, led the development of an AI-driven task management platform for mid-to-large scale companies.
- Achieved 2nd place and secured \$5,000 funding at the 2021 Canadian Undergraduate Conference on AI (CUCAI), highlighting product innovation.

## Technical Skills

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**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