# 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.
- Maintain and optimize the codebase, ensuring high performance, scalability, and reliability through regular code reviews.
- Collaborate with cross-functional teams to implement functionalities that streamline estate management and enhance user experience.
- Utilize Git and Jira to coordinate development efforts and ensure timely delivery of project milestones.

**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 (React Native, Laravel PHP, Vue.js, PostgreSQL).
- Led full-stack development of a production-ready 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 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, enhancing deployment and system reliability.
- Developed a custom metrics API to monitor services, ensuring adherence to SLOs and enabling 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, 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 enterprises.
- Secured 2nd place and $5,000 funding at the 2021 Canadian Undergraduate Conference on AI (CUCAI), demonstrating product innovation.

## Technical Skills

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