

Andy Craig

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Education

Queen's University

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

Class of 2024

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

Full Stack Software Engineer

July 2024 – Present

Toronto, Ontario

- \$Develop and enhance features for ClearEstate's estate settlement platform, utilizing a Laravel PHP backend and Vue.js frontend to deliver robust and user-friendly solutions.
- \$Maintain and optimize the existing codebase, ensuring high performance, scalability, and reliability of the application through regular code reviews and refactoring.
- \$Collaborate with cross-functional teams, including product managers and designers, to implement new functionalities that streamline estate management processes and improve user experience.
- \$Utilize version control systems (Git) and project management tools (Jira) to coordinate development efforts and ensure timely delivery of project milestones.

Ecobee

Machine Learning and Data Engineering Intern

April 2022 – May 2023

Toronto, Ontario

- \$Oversaw and maintained production services within the Ecobee ecosystem, including ETL batch and streaming jobs (Apache Beam) and ML Pipelines (Kubeflow).
- \$Engineered an end-to-end evaluation pipeline for a Package Detection computer vision model deployed on doorbell cameras, optimizing model performance and accuracy.
- \$Orchestrated the implementation of a Kubeflow pipeline for smoke/CO alarm detection, streamlining deployment and enhancing system reliability.
- \$Developed a custom metrics API to monitor production services, ensuring adherence to Service Level Objectives (SLOs) and facilitating proactive issue resolution.

Pursuit Labs

Co-Founder and Lead Software Engineer

August 2020 – April 2022

Kingston, Ontario

- \$Co-founder and software development team lead at Pursuit Labs, specializing in AI-powered talent management solutions for mid-to-large-scale companies seeking to optimize task allocation systems.
- \$Oversaw all technical components of the product, including the development of full product feature specifications and UI/UX models.
- \$Achieved 2nd place and secured 5,000 USD funding at the 2021 Canadian Undergraduate Conference on AI (CUCAI), showcasing early-stage success and product innovation.

IHS Markit

Strategic Alliances Intern

May 2021 – September 2021

Raleigh, VA

- \$Leveraged programming skills to streamline input data processing and eliminate manual processes
- \$Utilized Power Automate to automate email content extraction and Excel population, reducing new deal profiling time by approximately 10 minutes per deal.
- \$Developed Python scripts to automate the processing of redundant records, resulting in a time-saving of approximately 30 hours over 3,000 entries.

Projects

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

- \$Led the development of WorkoutPal, a workout analysis app that uses YoloV8 pose estimation and computer vision to give users feedback on their workout, including repetition analysis, caloric estimation and form feedback.
- \$Designed and developed an end to end ML pipeline that serves model inference to a SwiftUI iOS application using AWS to host API.

Cactus: Loyalty Rewards App • *React Native, Laravel PHP, Expo, CI/CD*

- \$Co-founded customer loyalty app for small-medium sized businesses who don't have resources to develop their own digital loyalty program.
- \$Designed and developed full stack production ready application, with custom Laravel API and 2 mobile apps.

Technical Skills

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

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

Concepts: Artificial Intelligence, Machine Learning, Neural Networks, Data Engineering, Data Science, Agile Methodology, Cloud Computing, Operating System, Virtual Memory, Encryption, Networks, Distributed Systems, User Interfaces