# Adam Coholan

Software Engineer

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## INDUSTRY EXPERIENCE

### Software Engineer Intern

CaseWare IDEA Veracity Team 05/2020 - 08/2021 Orléans, Canada

CaseWare IDEA (a subsidiary of CaseWare International), offers market-leading data analysis tools to accounting firms and auditors globally.

- Contributed to creation and growth of the cloud-based SaaS project CaseWare Veracity, working collaboratively and efficiently on an Agile development team
- Utilized technologies including React, MongoDB and PostgreSQL, .NET 5 (C#), Jira, GitHub and Docker, while being exposed to C++ legacy programming and DevOps procedures to implement a CI/CD pipeline
- Regularly displayed personal progress made on the application through live demonstrations to company executives, coworkers and various stakeholders
- Introduced and on-boarded new clients to the Veracity application, fielding their questions and reporting any feedback to my team

### Software Developer Summer Co-op

Federal Government of Canada 06/2019 - 10/2019 Québec, Canada

- Researched the fundamentals of building front-end web applications using Angular, HTML, CSS and JavaScript
- Explored and developed UX conscious applications with Python (TensorFlow) back-ends
- Worked as a member of a collaborative team sharing my research and applications with my superiors, providing me with practical team and project experience in a professional setting

## PROJECTS

### Sheet Music Generator from Audio Input (Capstone)

Ongoing

Undergraduate project currently in development with a goal to convert recorded audio from a piano into written sheet music.

- Collaborating with 3 group members to create web application which records a piano audio input and writes the corresponding sheet music
- Developing in an organized environment, leveraging tools such as GitHub and Jira
- Utilizing Fast Fourier Transforms and Deep Convolutional Networks to generate a predicted MIDI file based on recorded audio, which is displayed as sheet music using the flat.io API embedded in the front-end

### Personal Golf Handicap System

2021

Arduino-based device used to record advanced hole-by-hole statistics and calculate a golfers current handicap in accordance with USGA guidelines.

- Researched and designed device specifications including circuit layout, pseudocode, and power/memory requirements to accurately scope project and define a budget
- Built handheld user-facing device by utilizing an Arduino Pro Mini, an SD card for memory saving capabilities and a battery-based power supply to accommodate on-course usage
- Implemented device logic with memory efficient and runtime conscious C/C++ code

## SKILLS

**Python** **.NET** **Databases** **Arduino**

**Git / Version Control** **Web Development** **Organization**

**Problem Solving**

## SUMMARY

Ambitious and hard-working computer engineering student with industry experience looking for new challenges and learning opportunities. Passionate about golf, guitar, aviation, cooking, combining my passions with software-based projects and the applications of Artificial Intelligence in robotics.

## EDUCATION

### Bachelor of Applied Science - Computer Engineering, Artificial Intelligence Stream

Queen's University

2017 - 2022 Kingston, Canada

- Curriculum focused on Machine Learning and Artifical Intelligence, Machine Vision, General Software Development, Algorithm Implementation, and more
- Self-learning currently revolved around **AWS Fundamentals** (EC2, IAM, S3, databases, etc), with intentions to complete the Certified Solutions Architect Associate exam

## VOLUNTEERING

### Fix N Clean Head Coordinator

Engineering Society at Queen's University

2018 - 2019 Kingston, Canada

Fix N Clean is a semiannual student-run community outreach event where engineering students assist the elderly at their homes, completing household tasks.

- Promoted and marketed the event through live television and radio interviews, auditorium speeches to students and phone calls to community members
- Managed roughly 200 volunteers tending to over 50 clients throughout the Kingston community
- Devised and executed a strategic plan leading to a successful event, coming in roughly 50% under budget ($1,500 allocated)

### Front-End Developer

HeroHub

11/2019 - 04/2020 Kingston, Canada

HeroHub was a web-based start-up with goals to connect volunteers to volunteering opportunities throughout their community.

- Worked collaboratively with lead developer to build the Angular-based front-end to accommodate application release date deadline
- Managed informational booth at Queen's University fairs to advertise the HeroHub platform and volunteer opportunities to other students

## FIND ME ONLINE

LinkedIn
https://www.linkedin.com/in/adam-coholan/

Medium
https://medium.com/@adamcoholan