

# ANDREW IAMMANCINI

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## Experience

### Formula Electric

September 2024 – present

*Software Developer*

*Hamilton, Ontario*

- Collaborated with over **30 developers** to maintain software for an electric Formula One car, using GitHub.
- Developed a **software in the loop** testing system in **Go**, that has gained interest from **3** other design teams.
- Refactored existing code to implement an **object-oriented** approach, enabling modular code for simple debugging, **reducing bugs by 86%**.

### iBioMed Society

November 2024 – present

*Full-stack Developer*

*Hamilton, Ontario*

- Developed a sophisticated **REST API** using **Next.js** to store club events and club articles into a local spreadsheet, enabling club members to easily modify the websites content.
- Built reusable **React** components for the website, which is projected to have over 100 monthly users.

## Projects / Extracurricular

### FIRST Robotics Software Lead | *FTC Robotics Kit*

June 2021 - June 2024

- **Led a team of 4** to build a fully functioning robot that could successfully pick up cones and place them on large poles.
- Programmed a fully autonomous mode, where the robot took telemetry from color sensors to navigate a maze with **no human input**.
- Created **8 pages** of documentation with details about how to set up and configure the robot, which my teacher continues to use as a guide for the team.

### Youtube Shorts Generator | *Django, React, Next.js, Google Text-to-Speech API*

June 2024

- Developed a **full-stack** website to create YouTube Shorts using a Reddit post.
- Generated **YouTube shorts** followed the same format of an automated voice reading a Reddit post with Subway Surfers video in the background.
- Users input a Reddit post into the **React** front end, then the **Django** back end will generate subtitles that overlay a Subway Surfers clip.
- Utilized **Google Text-to-Speech API** to create a voice over, that would read the Reddit post aloud then synthesized the subtitles, background video and voice over using **MoviePy**.

### Investment Club Bot | *Python, Selenium, Google Cloud API*

October 2023

- Created a python script to automatically perform my tasks as **President of my high schools investment club**, saving me **2 hours** per month.
- The bot would scrape information about the leaders of the investment challenge using **Selenium**, and update a slideshow and print a page with their names.

### Flashcard Manager | *JavaScript, React, Express.js, MongoDB*

December 2022

- Designed a website to store, update and create collections of my flashcards.
- Used an **Express.js** back-end and **MongoDB** to store flashcards persistently, implemented a clean **React** UI for ease of use.

### Sorting Algorithm Visualizer | *Python, Pygame*

December 2022

- Constructed a sorting algorithm visualizer in **Python**, that my teacher continues to use as a learning resource for students.

## Skills

**Languages:** Python, Go, JavaScript, C, Haskell, HTML/CSS

**Technologies/Frameworks:** React, Next.js, Node.js, Django, Google Cloud, Express.js, MongoDB, Selenium, SQLite.

## Education

### St. Peters

Sep. 2020 – June 2024

*High School - Grade 12 GPA of 99.0*

*Peterborough, Ontario*

### McMaster University

September 2024 - present

*Computer Science*

*Hamilton, Ontario*

## Awards

### From St. Peters High school

June 2024

- Valedictorian (chosen out of 1200 students)
- AP math award (highest average: 99 and 100)
- Chemistry award (highest average: 99)
- Physics award (highest average: 99)
- Catholic Graduate Award (chosen out of 1000 students)