ANDREW IAMMANCINI

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Skills

Languages: Python, Go, TypeScript/JavaScript, C, Haskell, HTML/CSS
Technologies/Frameworks: React, Next.js, Node.js, Django, Google Cloud, Express.js, MongoDB, Selenium, SQLite.

Experience

LockIn   **December 2024 – present**
Full-stack Developer   *Hamilton, Ontario*
- Currently designing and building an app landing page for a startup with over **3000** users.
- The website will funnel visitors to the download the app on the app store.

iBioMed Society   **September 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.

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%.**

Projects

FIRST Robotics Software Lead | *FTC Robotics Kit*
- **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 the team continues to use as a guide.

Youtube Shorts Generator | *Django, React, Next.js, Google Text-to-Speech API*   **Github Link**
- 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.
- A Reddit post is inputted 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**.

Flashcard Manager | *JavaScript, React, Express.js, MongoDB*   **Github Link**
- 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*   **Github Link**
- Constructed a sorting algorithm visualizer in **Python**, that my teacher continues to use as a learning resource for students.

Education

McMaster University   **September 2024 - present**
Computer Science (B.A.Sc.) - 4.0 GPA   *Hamilton, Ontario*

St. Peters   **September 2020 – June 2024**
High School - Grade 12 GPA of 99.0   *Peterborough, Ontario*
- 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)