Ethan Greene

London, Ontario

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Education

University of Western Ontario, London   **Sept 2023 – Apr 2027**

Honours BSc in Computer Science, focus in Software Engineering

Clubs: **Vice President Finance** - Western TECH, **Vice President Marketing/Computer Vision Developer** – Western Engineering AutoPilot, **Science Students' Council** – Internet Commissioner, **University Students' Council** – Student Ambassador.

Relevant Coursework

- Machine Learning
- Data Science
- OOP
- Computer Networks
- Data Structures
- Sorting Algorithms
- Database Systems
- Information Retrieval
- Algorithms
- Probability and Statistics
- Memory Control
- Low level systems control

Experience

Science Students Council at Western University   **Sept 2024 – Present**

Internet Commissioner   *London, ON*

- Maintain, update and innovate the student's council website (westernssc.ca) bringing information to over 8,000 undergraduate students and faculty.
- Maintain, update and innovate The Current which is a science news site (thecurrentssc.com) brining science news to over 10,000 students and academics.

McDonald's Canada   **Aug 2021 – Feb 2024**

Shift Manager   *London, ON*

- Provide encouraging leadership for crew and managers to provide an outstanding guest experience
- Supervise and lead food safety and cleanliness measures to meet McDonald's standards
- Cultivate and encourage training, education, and continued learning within the restaurant
- Drive and expect a high level of performance from the team

Projects

Image Scaler / *Java*   **April 2024**

- Developed a Java program for image compression using Quadrant Trees, implemented tree data structures, and designed algorithms for traversing and manipulating tree nodes.
- Utilized Quadrant Trees to organize images hierarchically, representing pixels as nodes, and implemented methods for containment checks, getters/setters, and tree construction/recursion.
- Created a simple graphical user interface (GUI) for users to change image resolutions and find similar-colored pixels.

Physics Equation/Calculator App/ *Java, JavaScript and Android Studio*   **February 2023**

- Created an Android application using Java and Android Studio with java script implementations to create an app that can calculate various equations used in physics as well as a calculator component.
- Processed user inputted information in the back-end of the app to return a calculation based on the equation selected.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Personal Portfolio Website / *HTML, JavaScript, CSS, React and TailwindCSS*   **May 2024**

- Designed a creative portfolio that demonstrates my skills as a full-stack developer.
- Implemented creative styles using cutting edge frameworks and implemented a backend to handle requests for contact.

Horizon / *Next.js, TypeScript, Appwrite, Plaid, Dwolla, React, Chart.js, ShadCN and TailwindCSS*   **June 2024**

- Built with Next.js, Horizon is a financial SaaS platform that connects to multiple bank accounts, displays transactions in real-time, allows users to transfer money to other platform users, and manages their finances altogether.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, Swift, Unix, TypeScript
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, Xcode, React, Git
Frameworks: ReactJS, Node.JS, ShadCN, TailwindCSS, MySQL