Tirth Nagar
Engineering Co-op Student

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EDUCATION

Bachelor of Engineering, *McMaster University* | GPA: 3.95/4.00 — 2022-2026
Relevant Courses:

- Integrated Cornerstone Design Projects in Engineering [Engineer 1P13 A/B]

SKILLS

Frontend	HTML5, CSS, Javascript,
Backend	Python, Java, C, C++, Firebase, MySQL
Frameworks / Libraries	React.Js, Boostrap, NumPy, Pandas, Matplotlib, Sklearn, BS4, asyncio, aiohttp, WebRTC, Curses
Developer Tools	Git, Figma, Webpack, Adobe Photoshop, Adobe Premier Pro, Autodesk Inventor
Concepts	Data Structures, Algorithms, Object Oriented Programming

PROJECTS

Manga-Update-Checker — 11/2022 — 12/2022
Python Development — *Personal Project*

- Developed a manga update checking script that texts users whenever there is an update available, using Beautiful Soup for web scraping and the Twilio API for SMS communication.
- Stored and managed user data, including preferred manga titles, using Firebase
- Implemented aiohttp to optimize requests and improve overall workflow efficiency, resulting in a **100%** speed increase.

Project Lead / Ecoholics — 07/23/2021 — 07/25/2021
Explore Hacks 2021: Grand Winner — *Hackathon Project*

- Developed an end-to-end sustainable living app, Ecoholics, using HTML, CSS, JavaScript, and Bootstrap, reducing development time by **25%**.
- Utilized hashing techniques and Firebase to streamline the user login and register process, improving user security.
- Implemented a rewards system to incentivize users to recycle, resulting in a potential increase in recycling at various eco-zones.
- Optimized the user interface for improved UX, resulting in a possible **30%** increase in user engagement.

Lead Programmer / Neighbour Network — 06/11/2021 — 06/12/2021
Banana Hacks 2021: First Place Winners — *Hackathon Project*

- Developed a video chatting app allowing users to connect with people in their local community to boost human interactions during COVID-19.
- Developed the video chatting app to work with different browsers and devices with no performance issues and implemented a responsive design to ensure a consistent user experience using HTML, CSS, JavaScript, and WebRTC.
- Implemented Firebase for authentication & storage to streamline the login/register process and hashing techniques for secure data storage.

WORK EXPERIENCE

Research and Development Contractor / MedXInsight — 01/2023 — **Present**
Staff Advisor Contact - Available on request — *Work Experience*

- Led a team in the development of a portable pill bottle tool that tracks the number of pills inside and when it has been opened.
- Designed and built a functional prototype of the pill bottle tool, integrating hardware and software components to ensure correct functionality.
- Developed a software portal to display pill information, dosing instructions, days until refill, and when the device was last opened, and integrated it with the hardware and software components of the pill bottle tool.
- Conducted testing and refinement of the pill bottle tool and software portal to ensure accurate tracking of pills, and made necessary modifications based on feedback and testing results