Leiah Soriya Nay

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Education

McMaster University, Bachelor of Applied Science, Honours Computer Science   Sept 2021 - April 2026
- **Cumulative GPA: 4.0**
- Relevant Courses: Computer Networks and Security, Information Security, Operating Systems, Databases, Object-Oriented Programming, Concurrent Systems, Data Mining, Algorithms and Complexity

Skills
- Programming Languages: **C, Python, Java, JavaScript, TypeScript, Bash, SQL, HTML/CSS**
- Frameworks, Libraries and Tools: **Git, PyTorch, Pandas, NumPy, Jadx, Frida, MITM, Wireshark, BurpSuite**

Professional Experience

Co-op Student in Cryptography   September 2024 - April 2025
Government of Canada, Department of National Defence   Ottawa, ON
- Analyzed cryptographic algorithms and utilized **cryptographic libraries in Java, Python and C++**.
- Performed software reverse engineering on android applications using tools such as **Jadx** and **Frida**
- Leveraged cybersecurity tools such as **MITM, WireShark and BurpSuite**
- Operated in a **Linux** environment working on a **command line** to develop and test software
- Studied multiple new and niche programming languages to perform **SRE**, including functional languages

Data Scientist   May 2024 - August 2024
Korotu Technology   Toronto, ON
- Implemented over 3 key **front-end and back-end** features using **Python** and **Javascript** in **React**
- Developed and evaluated **machine learning algorithms** to calculate the amount of carbon in a forest
- **Researched**, tested and utilized various libraries to develop multiple different features
- Collaborated with 4 other developers using **GitHub** to maintain and improve the DroneWatch application

Software Engineering Intern   May 2023 - August 2023
Knowledgehook   Kitchener, ON
- Developed 4 interactive games in **Angular** using **JavaScript, HTML,** and **CSS**
- Utilized **Socket.io** to develop the base server-client architecture for a multiplayer game
- **Tested,** conducted **quality assurance**, and implemented changes based on feedback for 5 projects
- Leveraged **GitHub** to synchronize and co-develop software projects with a team of 15 engineers
- **Optimized** code to run efficiently on numerous different devices

Extracurricular Activities

McMaster AI Society's Projects Team
NoteFlow   September 2023 - April 2024
- Designed a program to summarize and format text in **Python** using **SpaCy, HuggingFace and TensorFlow**
- Aimed to help students organize their hastily written notes

POST Study Project   September 2021 - April 2022
- Implemented a support vector machine, a supervised machine learning algorithm, in **Python**
- Utilized **PyTorch, Pandas,** and **NumPy** to predict whether opioid abuse victims improved in recovery
- Cleaned a large data set of over 8 million entries and selected training data

McMaster University Computer Science Society Mentor   September 2024 - Present
- Mentored 2 students from my university program, one in 1st-year and another in 2nd-year
- Provided career advice, homework help and general guidance on succeeding in university

Personal Projects

[Portfolio Website](#)   May 2023 - August 2023
- A compilation of 6 personal and professional projects created using **JavaScript** in **Angular**