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, Prolog, Bash, SQL, HTML/CSS**
- Frameworks, Libraries and Tools: **Git, Linux, PyTorch, Pandas, NumPy**

Professional Experience

Data Scientist   May 2024 - August 2024
Korotu   Toronto, ON
- Worked in **full stack development**, implementing key features with **Python** and **JavaScript** in **React**
- Developed **machine learning algorithms** in Python to determine the amount of carbon in a forested area
- **Researched** and applied various libraries, such as PDAL, to develop multiple different features

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

Content Engineer Assistant   May 2022 - August 2022
Knowledgehook   Kitchener, ON
- Developed 12 interactive math tools using **Angular** that are used by students globally
- Implemented alternative technical solutions to overcome design constraints
- Created over 20 detailed bug tickets for various projects after performing **quality assurance**
- **Optimized** code to run efficiently on numerous different devices

Coding Coach   March 2021 - August 2021
Hatch Coding   Toronto, ON
- Instructed 20 students of various levels on software development principles in **JavaScript** and **Python**
- **Debugged** over 50 student projects, often analyzing over 1000 lines of code

Extracurricular Activities

McMaster AI Society's Projects Team
NoteFlow   September 2023 - Present
- Designed a program to summarize and format text in **Python** using NLP libraries **SpaCy** and **HuggingFace**
- 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

Personal Projects

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

Maze Dash   May 2020 - June 2020
- A multiplayer game constructed in **Java** using **object-oriented design patterns**