

Leiah Nay

ON, Canada · 437-991-7887 · nayl@mcmaster.ca · [linkedin.com/in/leiah-nay](https://www.linkedin.com/in/leiah-nay) · github.com/leiah8

EDUCATION

McMaster University

Bachelor of Applied Science, Honours Computer Science Co-op

September 2021 - April 2025

- **Cumulative GPA: 3.9** or 11.8 on a 12.0 scale
- Golden Key Society: Placed in the top 15% of the program for the past two school years
- Relevant Courses: Computer Networks and Security, Information Security, Operating Systems, Databases, Object-Oriented Programming, Concurrent Systems, Data Mining, Algorithms and Complexity

SKILLS

- Programming Languages: **Python, Java, JavaScript, Haskell, Prolog, C, Bash, SQL**
- Frameworks and Tools: **Git, Pytorch, Pandas, NumPy, SpaCy, Linux**
- Interpersonal and communication skills as developed through teaching and lifeguarding

PROFESSIONAL EXPERIENCE

Software Engineering Intern

Knowledgehook

May 2023 - August 2023

Waterloo, 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
- Designed 4 APIs that are utilized by other developers and those without coding experience
- **Tested** and conducted **quality assurance** on 5 projects, then made changes based on feedback
- Leveraged **GitHub** to effectively synchronize and co-develop software projects with other engineers

Content Engineer Assistant

Knowledgehook

May 2022 - August 2022

Waterloo, 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

Hatch Coding

March 2021 - August 2021

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
- Collaborated with other coaches to create lesson plans and solve problems in students' projects

EXTRACURRICULAR ACTIVITIES

McMaster AI Society's Projects Team

NoteFlow

September 2023 - Present

- Designed a program to summarize and organize inputted text in **Python** using the NLP library **SpaCy**
- 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**
- Users navigate through a randomly generated maze while avoiding 2 different obstacles