

# MEGH JOSHI

## HONORS COMPUTER SCIENCE CO-OP STUDENT

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### PROFILE SUMMARY

Enrolled in level 2 of the Computer Science program at McMaster University. Excellent communication, teamwork, leadership skills, and project management skills gained through co-op experience.

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### TECHNICAL SKILL

Python C Java Haskell Elm Data Structures and Algorithms Shell Scripting  
Instruction Set Architecture Compiler Optimization Database Management

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### CLUBS

#### McMasterAI Society – Project Team Member

September 2023–Present

McMaster University, Hamilton, Ontario

- Redesigning MacChat Bot using AI and NLP to solve higher order user problems and decrease the wait time to increase the efficiency of the chat bot.
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### EDUCATION

#### Bachelor of Applied Science – Computer Science

2022–2026

McMaster University, Hamilton, Ontario

- Part of Dean's Honours list in year 1.
  - Received McMaster's Engineering Dean's Excellence scholarship worth \$7500
  - Received McMaster's Engineering Research Experience Award worth \$6000
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### WORK EXPERIENCE

#### Research Assistant

May 2023 – August 2023

#### IBM CAS (Centre for Advanced Studies)

- Worked on the IBM compiler, which efficiently compiles both Z-series and POWER mainframes. Enhancing the functionality of IBM's POWER library by developing new functions.
- Conducted comprehensive development and testing of the functions within IBM's MASS (Mathematical Acceleration Subsystem) library, meticulously analyzing their behavior and accuracy with critical numerical scenarios such as subnormal values, 0, and infinities.
- Implemented cutting-edge activation functions, including SiLU, GeLU, ReLU, SoftPlus, and others, to enhance the library's performance and support a broader range of applications.
- Honored with the [IBM Centre for Advanced Studies 2023 Project of the Year](#) award presented during CASCON Community Day at IBM TechXchange in Las Vegas.

#### Coding Tutor

May 2023 – July 2023

#### Fondation Stabl Foundation

- Instructed and facilitated Elm coding language workshops for students across diverse educational institutions, ranging from grades 2 to 8.
- Devised engaging and interactive class sessions to ensure an enjoyable learning experience for young minds. Skillfully prepared students to showcase their acquired knowledge and coding proficiency by participating in WORDATHON 2023, where they excelled in the competition through their coding prowess.