

Ali Naqvi

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EDUCATION

McMaster University

Sep. 2022 - May. 2026 (Expected)

B. Eng, Computer Engineering

Hamilton, ON

- Achieved Dean's List with cumulative GPA of 3.7 / 4.0.
- Relevant Courses: Electric Circuits & Waves, Data Structures & Algorithms, Logic Design, Microprocessor Systems, Artificial Intelligence & Innovation.

SKILLS

- **Languages:** C/C++, Python, HTML/CSS, JavaScript (Node.js, React), Typescript, Java (Spring), MATLAB.
- **Tools/Technologies:** MySQL, Linux, Git/GitHub, VSCode, VHDL/Verilog, VMware, Prometheus, AWS.
- **Hardware:** Oscilloscopes/Multimeters, Arduino/Raspberry Pi, 3D Printing, Breadboarding, MAX 10 FPGA

PROJECTS

AI Image Generator

Nov. 2023 – Dec. 2023

Personal Project

Halton Hills, ON

- Developed an interactive AI image generator using **CSS/HTML** in **React** as the frontend environment.
- Implemented **DALLE-2 API** key to capture user input, subsequently generating an artificial image.
- Utilized core **CSS/HTML** concepts in flexbox and grid layouts as well as **React** hooks to create a dynamic and friendly user interface.

Snake Game

Sep. 2023 – Nov. 2023

University Group Project

Hamilton, ON

- Designed a console snake game in **C/C++** with the **GNU** compiler that takes in asynchronous input.
- Developed a modularized environment by adhering to **C++ object-oriented programming** and **UML** design logic.
- Utilized dynamic memory allocation with pointers and snake food sorting algorithms to create a high-performance program.
- Reduced memory leakage to maximize performance using memory debugger, **Dr. Memory**.
- Enhanced problem-solving skills by making use of the built in **GNU debugger** to resolve semantic and overall behavioral errors.

The "Plug-O-Matic"

Feb. 2023 – Apr. 2023

Client Based Group Project

Hamilton, ON

- Collaborated on engineering a self-inserting plug aimed to assist clients with physical and visual disabilities.
 - Nominated for final showcase design out of more than 250 teams in cohort.
- Utilized an **HC-SR04 ultrasonic sensor** by implementing **Arduino breadboarding** and **programming in C/Assembly** to use as device trigger.
- Crafted plug frame in **Autodesk Inventor** before **3D Printing** in plastic polymer which worked as the device's frame and an insulator for safety near electrical outlets.

NON-TECHNICAL EXPERIENCE

Stuart Weitzman

July. 2023 – Present

Sales and Stock Associate

Halton Hills, ON

- Enhanced collaboration and communication skills working in a dynamic and fast paced team environment.
- Gained customer service and interpersonal skills while working receiving over 50 customers in store per hour.
- Meticulously organized and sorted merchandise for a fresh store look ultimately maximizing a customer friendly experience.