

VEDANT PATEL

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EDUCATION

McMaster University

Bachelor of Engineering – **Software Engineering**

Cumulative GPA: **3.9/4.0**

Sep. 2022 – April 2026

Hamilton, ON

TECHNICAL SKILLS

Languages: Python, C#, C++, HTML/CSS, JavaScript

Developer Tools: VS Code, Figma, Git, GitHub

Technologies/Frameworks: Bootstrap, React, Express, Node

EXPERIENCE

McMaster Engineering EcoCAR EV Challenge

Oct 2022 – Present

Mechanical sub-team member

Hamilton, ON

- Selected as a member of **one of the two** exclusive Canadian engineering teams chosen to participate in the North America EV Challenge.
- Collaborate as an active member to integrate a new electric powertrain into the Cadillac Lyric
- Assist in the design of engine mounting and power transmission systems, while conducting in-vehicle testing to ensure maximum efficiency and safety
- Collaborate with CAVS team to ensure the appropriate mounting of autonomous vehicle sensing equipment

XdHacks: Toronto

Feb 2021 – May 2022

Event Manager

Remote

- Collaborated with a team of 12 colleagues to successfully plan and promote annual Hackathons, which consistently attracted **150** students from around the world.
- Collaborated with logistics and marketing coordinators to develop and organize the 2021 InnovateHacks event, delivering comprehensive plans **13 days ahead** of schedule.
- Successfully secured **7 reputable sponsors**, including Swiss Chalet, echoAR, and aigolearning, by proactively reaching out and communicating the benefits of sponsorship for our events.

Kumon North America

March 2019 – Jan 2021

Mathematics Instructor

Hamilton, ON

- Instructed **100+ students** aged 5-16 in mathematics and reading, utilizing effective teaching techniques to enhance student engagement and understanding.
- Graded and recorded progress for 100+ students, providing comprehensive feedback to ensure student success.
- Maintained open communication with parents and main manager, proactively addressing any concerns with students and working together to develop effective solutions.

PROJECTS

Verifme | NodeJS, Express, MongoDB, Heroku, Figma

- Developed a **1st place-winning** full-stack web application at PTC Hacks that connects high school students and helps break isolation barriers.
- Designed a comprehensive **Figma** prototype to guide development.
- Implemented a **MongoDB schema** that enables users to create posts, comment, and upvote/downvote content.
- Successfully deployed the application on **Heroku**.

Get a Grip | Python, Quanser, Lucid

- Designed a computer program for transfer of a sterilization container using Quanser Interactive Labs (Q-Labs) environment with two virtual potentiometers.
- Optimized the sorting algorithm to effectively identify 6 distinct containers and use a robotic arm to place them in the appropriate autoclaves
- Wrote code to control Q-arm movement using two potentiometers to rotate the base and move the arm to place objects on top of or inside the autoclave.

VIPLI: Fitness | C#, Windows Forms

- Designed and developed a fitness software utilizing C# on Windows Forms to build a user-driven GUI
- Created a personalized exercise plan generator that takes into account individual fitness goals and current fitness levels
- Utilized principles of human-computer interaction to design a user-friendly and intuitive interface for the fitness software