

Richa Rani

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EDUCATION

McMaster University

Hamilton, Ontario

Bachelor of Engineering, Electrical Engineering and Management

2020-2025

- Engineering and management pairs a full engineering degree with core business education
- Involved in McMaster Makers, McMaster Engineering and Management Society, and the Solar Car project. Took part in the McMaster Engineering Competition and MacHacks. Received \$1000 scholarship.

Heart Lake Secondary School

Brampton, Ontario

High school

2016-2020

- Involved in model UN, jazz band, senior band, scholars of science, badminton, mock trial club and flute ensemble.

EXPERIENCE

Solar Car Project

McMaster University

Electrical Team Member

Sept 2021- April 2022

- Worked on the pedal control team and was responsible for redesigning, simulating, and building pedal control circuits.
- Used Multisim and Eagle AutoCad. Applied electrical engineering, alternative energy, and automotive knowledge.

McMaster Engineering and Management Society

McMaster University

Level 2 Representative

Sept 2021- April 2022

- Focussed on efficient communication between executives and the level 2 engineering and management students.
- Organized different events and programs to suit needs of engineering and management students,

SRHacks

University of Toronto

Mentor and Judge

June 2021

- Mentored 15+ students from grade 6-8 and guided them through completing the assigned task for the hackathon.
- Judged 13+ projects by analyzing 8 criteria related to java, engineering, creativity, innovation and problem solving.

McMaster Makers

McMaster University

Operational Team, Event Coordinator

September 2020- April 2021

- Coordinated 7 engineering based workshops and organized over 100 attendee's information, venue, logistics etc.
- Drafted 7 reports which focused on trends, issues and areas of improvement to ensure better future workshops.

Street Master Realty Ltd.

Brampton, ON

Data Entry Clerk

Oct 2019- March 2021

- Input property information into back end software and MLS for 100+ properties. Maintained and organized the files.
- Completed required data entry tasks within the given time frame while maintaining a high-level quality.

PROJECTS

- **Website:** Created a website to act as a personal portfolio. bit.ly/richarani
- **Grocery List Generator:** Used Web Scraping Python Library to generate grocery lists when several recipe links are input into a website. Used Python, Flask, HTML, CSS, JS, PHP
- **Sudoku Solver:** Created Sudoku Solver using Python with a backtracking algorithm

AWARDS AND ACCOMPLISHMENTS

- **1st Place Best Machine Learning Hack using Jina:** Created a web app for TechNova Hackathon. "Create My Tune" used Jina AI to recommend songs based on mood. Used machine learning and AI

SKILLS

Technical Skills: Python, Java, HTML, CSS, Microsoft Office(Excel, PowerPoint, Word Etc) , C, C++, Git, Web interfaces, APIs, Oscilloscope, Multisim, Eagle Circuit Design, Breadboard circuitry.

Business Skills: Oral and Written Communication, Interpersonal Skills, Leadership, Cost analysis

Languages: English, Hindi, Punjabi, Urdu, French