HEMAL RAJPUT

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EDUCATION

McMaster University, Hamilton, Ontario   **Expected May 2027**
Bachelor of Engineering, Software Engineering
Minor(s): Biochemistry
cGPA: 11.28 on the McMaster 12-point Scale
Awards: Received the McMaster Entrance Award for achieving an average of over 90% in grade 12, Qualified for Dean's List in all current semesters

McMaster University, Hamilton, Ontario   **Sept 2020 – May 2022**
Bachelor of Science, Biochemistry
Completed two-years of biochemistry before switching over to Software Engineering

Castlebrooke Secondary School, Brampton, Ontario   **June 2020**
Awards: Honors award in all four years, Grade 11 award in Chemistry for highest average

Relevant Major Courses: Object-Oriented Programming, Data Structures and Algorithms, Digital Systems and Interfacing, Computer Architecture, Software Engineering Practice and Experience, Introduction to Software Development

Relevant Elective Courses: Practical Bioinformatics in the Genomics Era

PERSONAL PROJECTS

Super Hemmie-O (Platformer Game), *Python*
- Developed a simple Mario-like platformer game with blocks, traps, fruits, collisions, and endgame conditions using Python as the development medium
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Recycling System, *Python, Quartus, Autodesk Inventor*
- Programmed a robotic arm and dispenser to load and move objects in appropriate recycling stations using proximity and light detection sensors in a virtual and physical environment

Sterilization Mechanism, *Python, Quartus, Autodesk Inventor*
- Used a robotic arm to move objects to a sterile location in a virtual environment by implementing potentiometers

EXTRACURRICULAR EXPERIENCE

Engineers without Borders, Fundraising Director   **2023-Present**
- Organized several fundraising events to donate to charities around Hamilton, including the Ronald McDonald House

MacChangers   **2022-Present**
- Created a solution to safe and accessible biking within the McMaster community and presented it to an audience of community members in Downtown Hamilton

ADDITIONAL EXPERIENCE

Van der Graaf, Brampton, ON, *Summer Intern*   **2022-2023**
- Gained knowledge of software relating to coding a soldering robot
- Worked on and learned G and M code for CNC machines

SPECIALIZED SKILLS

Programming Languages: Java, Python, C, C++, C#, MATLAB, HTML/CSS

Programs: Quartus, Autodesk, AutoCAD, Photoshop, Illustrator, InDesign, Inventor, Excel