Jaavin Mohanakumar

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EDUCATION

McMaster University   **Sept. 2022 – Apr. 2027**
Bachelor of Engineering, Engineering 1   Hamilton, ON
- Admitted with the Faculty of Engineering Award of Excellence Scholarship (Final Admission Average 95%+)

EXPERIENCE

Assistant Project Manager | McMaster Rocketry Team | Hamilton, ON   **Nov. 2022 – Present**
- Work with controls team as a point of contact between the sub-team with 15 members and the project manager
- Responsible for preliminary design review presentation for a panel of Launch Canada 2023 judges
- Worked on the IREC Spaceport America Cup 2023 Project Technical Report overviewing our design

Software Development Co-Lead | FIRST Robotics Team 1325 | Mississauga, ON   **Sept. 2021 – June 2022**
- Led the design, discussion, implementation, testing of software systems in **Java** for a 120lb competitive robot
- Innovated in autonomous programming using **PID Controllers** and **Swing**, control systems and computer vision on a robot that has won many competitions, and was awarded the Excellence in Engineering Award at FIRST World Championship in Houston

Front-End Developer | Huff Language | Remote   **June 2022 – Aug. 2022**
- Designed and developed homepage, resources for **Solidity** and contributing pages using **CSS** and **VuePress** for a website used by over 5 thousand active users
- Spearheaded creation of main page grid layout to improve **UI/UX** and streamline **accessibility**

Committee Member | Engineering 1 Operating Committee | Hamilton, ON   **Oct. 2022 – Present**
- Consulted with the director of engineering, administrators, and instructors about enhancing the Engineering 1 program, as a student voice for over 1000 engineering 1 students
- Developed strategies to provide 200+ students at risk with support centers for math, chemistry, and physics
- Reviewed Canadian Engineering Accreditation Board(CEAB) Attribute Summary to assess the school's goals

Engineering Ambassador | Faculty of Engineering | Hamilton, ON   **Sept. 2022 – Present**
- Guided tours of the department to 50+ prospective high school students in the span of 3 months

PROJECTS

Front-End Developer | Route Mixer | NewHacks 2022   **Nov. 2022 – Nov. 2022**
- Designed the frontend for website using **React** and **CSS**, and implementing the **Google Maps API**

Back-End Developer | Flashback-IRC | Summer Code Jam 2020   **Aug. 2020 – Aug. 2020**
- Implemented the user and groups models for the website using the Django **REST** framework in **Python**

SKILLS & INTERESTS

- **Skills**
    - **Langages:** Java, Python, Javascript, HTML5, CSS3, SQL, Bash, Solidity
    - **Frameworks and Libraries:** React, Django, NodeJS, Jest, REST, Flask, Google Cloud Platform
    - **Technologies:** Git/Github, Azure, Linux, VSCode, IntelliJ, Autodesk Inventor
- **Interests:** sleeping; swimming; coding; taking my dog to the park; gaming; robotics; rockets!