

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 overviews 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**
▪ Guiding 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!