

# Jaavin Mohanakumar

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## EDUCATION

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**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

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**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

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**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

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- **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!