

Jaavin Mohanakumar

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EDUCATION

McMaster University | Bachelor of Engineering (Co-op) | Hamilton, ON **Sept. 2022 – Apr. 2027**

- Admitted with the Faculty of Engineering Award of Excellence Scholarship (Final Admission Average 95%+)

EXPERIENCE

Project Lead | [McMaster Artificial Intelligence Society](#) | Hamilton, ON **Jan. 2022 – Present**

- Building an Ethereum fraud detector using convolutional neural networks to predict anomalous transactions in the Ethereum network at a large scale

Assistant Project Manager | [McMaster Rocketry Team](#) | Hamilton, ON **Nov. 2022 – Present**

- Worked as a liaison between the software controls sub-team with 15 members and the project manager
- Managed the team's timelines coordinating tasks with the entire team of over 70 members
- Led the IREC Spaceport America Cup 2023 Project Technical Report overviewing the design

Software Development Co-Lead | [FIRST Robotics Team 1325](#) | Mississauga, ON **Sept. 2021 – Jun. 2022**

- Led the design, implementation, and testing of software systems in **Java** for a 120lb competitive robot
- Innovated in autonomous programming using **PID controllers**, **control systems**, and **computer vision**
- In this community robotics team previously sponsored by NASA, the robot has won many competitions and was awarded the Excellence in Engineering Award at FIRST Robotics World Championship in Houston

Front-End Developer | [Huff Language](#) | Remote **Jun. 2022 – Aug. 2022**

- Developed the documentation website for the largest independent Ethereum assembly language utilizing **CSS** and **VuePress** for a website used by over 5000 active users (docs.huff.sh)
- Collaborated with former [Rari Capital](#) employee on creating smart contracts on the EVM with **Solidity**

Committee Member | [Engineering 1 Operating Committee](#) | Hamilton, ON **Oct. 2022 – Present**

- Consulted with the director of engineering 1, administrators, and instructors about enhancing the Engineering 1 program, as a student voice for over 1000 engineering 1 students
- Developed strategies providing 200+ students at risk with support centers for math, chemistry, and physics

PROJECTS

Full-Stack Developer | [Chari3](#) | DeltaHacks IX **Jan. 2023 – Jan. 2023**

- Only solo winner of an award in a hackathon with 430 participants, used **React**, **Vite**, **Solidity**, and **CSS**

Front-End Developer | [Route Mixer](#) | NewHacks 2022 **Nov. 2022 – Nov. 2022**

- Developed the frontend for the website using **React**, **CSS**, and implemented the **Google Maps API**

SKILLS & INTERESTS

Skills

- **Languages:** Java, Python, Javascript, HTML5, CSS3, Solidity, Bash, SQL
- **Frameworks and Libraries:** React, Vite, Django, NodeJS, Jest, REST, Google Cloud Platform
- **Technologies:** Git/Github, Azure, Linux, VSCode, IntelliJ, Autodesk Inventor
- **Interests:** learning new tech stacks, swimming, coding, taking my dog on a walk, robotics, rockets!