Jaavin Mohanakumar

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Skills

Proficient React, TypeScript, Next.js, Tailwind CSS, JavaScript, Python, Java, C#, .NET, PostgreSQL, Azure, MongoDB

Familiar Rust, C, C++, Django, Google Cloud, AWS, Microsoft SQL, GraphQL, Redis, Prisma, React Native, OpenCV, MATLAB

Experience _____

Software Developer Intern | IPEX Management Inc. | Oakville, ON

May 2023—August 2023

- Implemented file transfer service in **C#** using **.NET** for business-critical process reducing downtime from 14% to 2%.
- Reduced missed promises on API Gateway improving accuracy of item-vendor mapping by 183 basis points on ASP.NET.
- Planned migration of a real-time application from Microsoft SQL server to MongoDB for key business service.

Software Development Co-Lead | FIRST Robotics Team 1325 | Mississauga, ON September 2021—June 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 the FIRST Robotics World Championship in Houston.

Projects

MeGPT | React, TypeScript, Next.js, Google Cloud

megpt.xyz

 MeGPT enables creators, brands, artists, publishers, agencies, and businesses of all sizes to create an AI clone of themselves, which they can share.

Tweet CoPilot | React, TypeScript, Next.js, MySQL

github.com/UnloadingGnat/tweetcopilot

• A social media platform that uses ChatGPT to keep your messages within the 280-character limit.

Chari3 | React, JavaScript, Vite, CSS

github.com/UnloadingGnat/Chari3

• Only solo winner of an award in a hackathon with 430 participants; building an app for the benefit of society.

Leadership

Assistant Project Manager | McMaster Rocketry Team

macrocketry.ca

- Coordinated between the software controls sub-team of 15 members and the project manager to drive successful rocket launch at Spaceport America in New Mexico.
- Orchestrated the team's timelines, coordinating tasks among a rocketry team of over 70 highly skilled members.

Project Lead | McMaster Artificial Intelligence Society

mcmasterai.com

• Led a team of 6 to build an Ethereum fraud detector using convolutional neural networks to predict anomalous transactions in the Ethereum network at a large scale.

Core Team Member | Huff Language

docs.huff.s

• Developed the documentation website for the largest open-source Ethereum assembly language utilizing CSS and VuePress for a website used by over 5000 active users.

Committee Member | McMaster Engineering 1 Operating Committee

eng.mcmaster.c

- Consulted with the director of engineering 1, administrators, and instructors about enhancing the Engineering 1 program, as a student voice for over 1000 first-year engineering students.
- Reviewed the Canadian Engineering Accreditation Board (CEAB) Attribute Summary to help evaluate and align the school's goals with standards in engineering education.

Education

B.Eng. in Computer Engineering (Co-op) | McMaster University | Hamilton, ON

September 2022—April 2027

• Awards: Faculty of Engineering Award of Excellence Scholarship