Jason DMello

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Education

Manipal Institute of Technology — Karnataka, India
Bachelor of Technology in Computer Science — *2021 – 2025*

Indian High School — Dubai, UAE
Seconday, Senior School (PCM w/ Eng. Graphics) — *2019-2021*

Experience

Coding Domain Team Member — Apr 2022 – Present
Robotics and Circuits (Student Project) — *Manipal, Karnataka*

- Worked with team members to build a Micromouse (Maze-Solving) Bot in **Arduino** to participate in competitions across India.
- Developed a numberplate recognition software to be used by CCTV cameras for Kavach'23.
- **Reduced time delay** by over **50%** in drawing characters as well as added an **automatic image cropping feature** for character detection in a project which helped our team get 2nd place in MITs Techtatva Event.
- Conducted interviews for new members attempting to join the club.

Projects

Non-Touch Input Device | *Python, Opencv, Mediapipe* — github.com/RNCManipal/Non-Touch_Writing_Pad

- Developed a software along with three other team members that enables end user to control the entire pc using only hand gestures.
- Contains character recognition software to function as a quick access taskbar.
- Utilizes **OpenCV**, for image detection, **mediapipe** for hand detection, **tensorflow** for character recognition and **Numpy** for image transfiguration
- Showcased in MITs Techtatva and and **won 2nd place** in the Vedant competiton

ElderlyCare WebApp | *React.js, Node.js, CSS, JavaScript* — github.com/Jansxn/GFG_Hack_2023

- Collaborated with two other team members to build a **Social-Connectivity web application** for mental healthcare directed towards the older generation
- Made an **emotion recognizer** in python to capture the dominant emotion of a user from a video file.
- Developed the **UI and UX** for the site using Figma templates
- Helped in implementing the user log-in and log-out functionalities.

Micromouse Maze-Solving Bot | *Arduino, C++, C* — github.com/RNCManipal/micromouse_2023

- A Maze-Solving bot that implements the **modified flood-fill algorithm** to calculate the shortest path to the end of the maze.
- Utilizes a **closed loop PID** system to rotate about its axis and travel from one point to another.
- Collaborated with teammates and acted as a **POC** to team leader of the club for the project.
- Currently in development to participate in national and international competitions throughout India.

Technical Skills

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS, Arduino (C++)
Skills: React, Node.js, Git