

Maheer Sayeed

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EXPERIENCE

GENERAL MOTORS - Warren, MI

July 2022 - Present

Software Engineer - AV Tools

May 2023 - Present

- Full-stack software developer working on in-house data visualization and recording application for ADAS development.
- Designed, developed, and tested multiple end-to-end features, optimizing system performance and scalability within a React, NestJS, C++, and MongoDB tech stack.
- Developed a Python application enabling customers to efficiently manage version control of multiple versions and 3 product flavors, reducing deployment errors by 75%.
- Developed a Python program to stress test the in-house XCP protocol binary used for CAN signal visualization, automating the validation of 10,000+ signals and uncovering critical edge-case bugs, which significantly accelerated software delivery across the organization.
- Primary Engineer in the US, ensuring high-quality delivery of all application flavors across platforms.
- Primary customer contact, conducting debugging sessions to uphold product integrity and accelerate ADAS development at General Motors.

Software Engineer - Data Collection Operations

July 2022 - May 2023

- Worked in agile scrum team developing software for Ultra Cruise data collection operations.
- Developed multiple Python programs for post processing and validating Terabytes of camera, lidar, radar and gps data that was collected throughout the day:
- Collaborated with the team to design and implement an automated pipeline that runs post-processing tools on all vehicles daily after data collection, ensuring seamless data processing and allowing team to expand data collection fleet by 300%.

EDUCATION

CARNEGIE MELLON UNIVERSITY - Pittsburgh, PA

Master of Science in Mechanical Engineering

Graduated May, 2022

Bachelor of Science in Mechanical Engineering

Graduated Dec, 2021

GEORGIA INSTITUTE OF TECHNOLOGY - Atlanta, GA

Master of Science in Computer Science

Expected Graduation Aug, 2026

PROJECTS

First Prize Winning Project - Microsoft Innovation Challenge 🌐

March 2025

- Collaborated in team of 4 to build AI powered job board web application to assist job-seekers with disabilities.
- Used Azure OpenAI service with GPT-4o model to generate helpful job insights given combination of job details, user preferences and user impairments.
- Built robust job board with Typescript, React, Flask, MongoDB tech stack capable of supporting database with 500,000+ job entries.
- Finished first place out of 60+ teams world-wide, winning grand prize of \$10,000.

Rubik's Cube Solving Robot 🌐

Summer 2022

- Wrote algorithm with graph-generation and pathfinding to get semi-optimal solution for any scrambled Rubik's Cube.
- Developed color-classifier with OpenCV to detect state of the scrambled cube from webcam input.
- Designed and built unique 2-motor cube solving robot.

SKILLS

Languages: Python, C++, NodeJS, JavaScript, TypeScript, SQL, Java, CSS, Bash, C, Arduino, MATLAB, HTML5

Frameworks: React, Flask, Express, NestJS, Postgresql, MongoDB, Playwright

Tools: Docker, Linux, Git, Azure OpenAI, Azure CosmosDB, Azure AI Search, Android Studio, Wireshark, Protobuf