Maheer Sayeed

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EXPERIENCE

GENERAL MOTORS / CRUISE   **Jul 2022 - Present**

Software Engineer - AV Analysis (Cruise)   **May 2025 - Present**

- Full-stack developer working on the Webviz team, building in-house software for self-driving data visualization
- Built end-to-end features on Webviz app, including camera distortion models and custom reference frames for 3d visualization
- Built end-to-end features on Drives app, writing SQL queries to periodically extract up-stream event data and display it on the UI.
- provided on-site support for in-vehicle Webviz, and developed a method for providing live Webviz support remotely through ssh port forwarding
- Other day-to-day responsibilities include collaborating with other engineers on projects, participating in architectural reviews, reviewing PRs, and participating in on-call rotation to support all of our tools.

Software Engineer - AV Tools   **May 2023 - May 2025**

- 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.

Software Engineer - Data Collection Operations   **Jul 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

BS and MS in Mechanical Engineering   **Graduated May, 2022**

GEORGIA INSTITUTE OF TECHNOLOGY

MS in Computer Science with a Concentration in Artificial Intelligence   **Expected Graduation May, 2027**

PROJECTS

First Prize Winning Project - Microsoft Innovation Challenge 🌐   **Mar 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 pf supporting database with 500,000+ job entries.
- Finished first place out of 70+ teams world-wide, winning grand prize of $10,000.

SKILLS

Languages: Python, Typescript, Javascript, C++, NodeJS, SQL, Java, CSS, Bash

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

Tools: Docker, Linux, Git, Cursor, BigQuery, PagerDuty, DBT, Vault, ElasticSearch, Azure OpenAI, Azure CosmosDB, Azure AI Search, Android Studio