

JAI ME DIAZ

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SUMMARY

Software Engineer with experience at General Motors, designing and delivering scalable systems using Python and C++. Proven ability to modernize legacy workflows through cloud-based databases and internal web applications. Strong collaborator in agile environments, focused on building reliable, efficient solutions that improve data integrity, performance, and team productivity.

WORK EXPERIENCE

TRACK Service Engineering Process & Systems Analyst , General Motors Jul 2025 - Present

- Architected and developed a Python-based full-stack internal web application used daily by a 7-person analyst team, enabling real-time multi-user data entry, centralized task tracking, and streamlined workflows.
- Designed and implemented a MySQL cloud-based database to replace a legacy Excel system with 20,000+ records, improved scalability, reliability, and data accessibility.
- Analyzed and refactored system logic to eliminate inefficiencies, reduce processing errors, and improve overall operational efficiencies.

Software Engineering Intern, General Motors

May 2024 - Aug 2024

- Developed a Python algorithm to identify and delete outdated GeoTile files on vehicle computers to optimize performance, storage utilization, and support automated driving.
- Planned and coordinated test plans to ensure algorithms meet coding standards and company standards.
- Collaborated cross-functionally with developers across multiple teams to integrate new functionality with existing systems.

Software Engineering Intern, General Motors

May 2023 - Nov 2023

- Contributed to server-side development projects, including web applications, Flask APIs, and database design.
 - Led the development of a back-end C++ based testing space to be used by 200+ developers to support internal tooling.
 - Developed automotive software solutions using C++ and Python.
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EDUCATION

Aug 2020 - May 2025

Bachelor of Science in Software Engineering

Rochester Institute of Technology

ADDITIONAL INFORMATION

- **Back-End Languages:** Python, C++, C#, Java, MySQL, PostgreSQL
- **Languages:** English, Spanish
- **Front-End Languages:** React, JavaScript, Bootstrap, HTML, CSS