About Me

I'm Gopikrishnan Govindaraj, an automobile engineer turned DevOps practitioner with a passion for optimizing both mechanical systems and cloud infrastructure. My journey bridges the precision of engineering with the speed and automation of modern DevOps workflows. I thrive on building scalable systems — whether it's designing automotive components in SolidWorks or deploying cloud-native applications using AWS, Docker, and CI/CD pipelines.

With a strong foundation in engineering principles and a deep curiosity for coding and automation, I continuously explore innovative ways to enhance performance, reliability, and efficiency. My experience spans from hands-on mechanical design to deploying secure and resilient infrastructure on the cloud. I'm driven by a simple principle: solve problems smartly, and build things that last.

Skills

Engineering & Design Tools: SolidWorks – 3D modeling, simulation, and technical drawing for mechanical systems
Cloud & DevOps: AWS – foundational knowledge; learning Jenkins, Docker, and Ansible; basic Linux proficiency
Programming: Python – basic scripting and automation

Projects

■ F1 Race Car Fabrication

Role: Team Member – Design & Fabrication
Participated in the complete end-to-end fabrication of an F1-style race car as part of a college-level competition. Worked on chassis assembly, body design, and component integration using SolidWorks.
Skills Applied: SolidWorks, Manufacturing, Team Collaboration

■ Aeroponics Farming System

Role: Project Lead
Developed an automatic monitoring and maintenance system for an aeroponics-based farming setup. The system optimized nutrient flow and monitored plant health using sensors and automation logic.
Skills Applied: IoT Integration, Python (Basic), Automation Logic

■■ Study on Tribology & Microstructure of AA2024

Role: Researcher
Conducted a detailed study on the tribological and microstructural behavior of Aluminium Alloy 2024 coated using Electro Discharge Deposition. Used SEM and XRD analysis to examine material performance.
Skills Applied: Material Science, SEM, XRD, Technical Research

Experience

■ DevOps Engineer – T Machine Software Solutions

Feb 2025 – Present (4 months)
Gained hands-on experience with AWS, Linux, and basic Python scripting. Actively learning and contributing to DevOps tools such as Jenkins, Docker, and Ansible. Involved in internal automation tasks and deployment workflows.

Education

■ **Bachelor's Degree in Automobile Engineering**
SNS College of Technology, Coimbatore
2021 – 2025