MADESHWARAN M
DevOps Engineer

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I'm a DevOps Engineer passionate about automation, cloud infrastructure, and solving real-world problems with scalable solutions. I thrive in dynamic environments, enjoy working with CI/CD, IaC, and containers, and love hands-on learning in my home lab.

SKILLS

Cloud & IaC:
   AWS, GCP, Terraform

DevOps Tools:
   Kubernetes, Docker, Linux, Ansible, Jenkins, Maven, Git-Lab, SonarQube

Monitoring Tools:
   Grafana, Prometheus

WORK EXPERIENCE

DevOps Engineer
Self-Hosted HomeLab

- Deployed a full-stack OpenAI Chatbot UI on AWS EKS using Jenkins and Terraform for an automated, scalable, resilient, and efficient CI/CD pipeline.
- Created a media server in a HomeLab using Jellyfin, Radarr, and qBittorrent for automated content delivery, with persistent storage Implemented.
- Deployed YouTube and Netflix clones in a self-hosted HomeLab using Jenkins CI/CD, Docker, and K3s to demonstrate real-world DevOps workflows.
- Established a two-tier architecture by connecting a Java-based application to a MongoDB database using isolated Docker containers.
- Created and launched a personal website with a custom domain name, showcasing my projects, skills, and serving as an online portfolio.
- Experimented with containerized environments by creating a custom "Suicide Linux" user that executes destructive commands upon incorrect input.

PDSVISION   **Chennai, TN**
Junior PLM Consultant   **Jan, 2023- Feb 2025**

- Installed and upgraded Windchill (versions 11, 12, and 13), including date code updates, CPS, rehosting, renaming, and SSO integration to ensure secure and efficient performance.
- Configured the PartsLink module, including alias and cascading attributes; set up Creo and Windchill Connect for worker configuration and part publishing.
- Implemented Change Management processes and developed custom JasperReports to address customer-specific requirements.
- Monitored infrastructure and application performance using Google Cloud Platform (GCP) tools to ensure high availability and reliability.
- Deployed and maintained ThingWorx IoT platform projects, ensuring seamless operation, scalability, and alignment with business requirements.

NCR Corporation   **Chennai, TN**
Intern   **Jul, 2022- Oct, 2022**

- Conducted thorough testing to verify the functionality and performance of the ATM system.
- Assisted in the mechanical assembly and construction of ATM units.
- Carefully selected and securely packed ATM components for production and shipment.
- Performed final inspections to ensure compliance with quality standards before deployment.

EDUCATION

BE in Mechanical Engineering   **Sep, 2018 – Jun, 2022**
Muthayammal Engineering College, Namakkal, Tamil Nadu GPA: 7.63/10

10th & 12th   **2016 – 2018**
A.K.T AcademyMatriculation Higher SecondarySchool, Kallakurichi,Tamil Nadu.