MADESHWARAN M
DevOps Engineer **|** Cloud & Platform Engineering

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DevOps Engineer with 3+ years of experience supporting cloud-native and enterprise environments across AWS and GCP. Strong hands-on experience in CI/CD automation, infrastructure as code, Kubernetes, and container platforms. Experienced in integrating AI-enabled and rule-based automation into DevOps workflows to improve operational efficiency. Proven ability to support deployments, migrations, and operational reliability through automation, monitoring, and standardized deployment workflows.

SKILLS

- **Cloud Platforms –** AWS, GCP
- **CI/CD & Automation –** Jenkins, GitLab CI, GitHub Actions
- **Container Platforms –** Kubernetes (EKS, k3s), Docker, Helm
- **Infrastructure as Code –** Terraform, Ansible
- **Monitoring & Reliability –** Prometheus, Grafana, CloudWatch

- **Scripting & Automation –** Shell scripting, Bash
- **Systems & Virtualization –** Linux, Proxmox, Hyper-V
- **Data & Platform Pipelines –** Airbyte, MinIO, Hadoop
- **Databases –** PostgreSQL, MySQL
- **Version Control –** Git (GitHub, GitLab)

WORK EXPERIENCE

XERAGO.AI — Chennai, TN
Senior Associate – DevOps Engineer (MarTech) — Jul, 2025 - present

- **Architected and independently developed OpsAction Unified OS**, an **R&D-driven DevOps platform** Using Antigravity centralizing SSH access, **multi-cloud Kubernetes orchestration (AWS, Azure, GCP)**, **RBAC, audit logging**, and **one-click operations**, with full documentation to enable team adoption and scalability.
- Executed **deployment, upgrade, and cloud migration** of **enterprise MarTech platforms (Unica)**, modernizing on-premises workloads into **containerized, cloud-ready architectures** with improved stability and operational efficiency.
- Designed and implemented **CI/CD pipelines** using **GitLab CI and Jenkins** to **automate build, test, image creation, and deployment** workflows, reducing manual intervention and ensuring **consistent, repeatable releases** across environments.
- Standardized application packaging and release management by building and maintaining **Docker images and Helm charts**, enabling **versioned deployments**, **rollback strategies**, and controlled release processes.
- Implemented internal data and **platform validation pipelines** integrating **Airbyte, MinIO, Hadoop, and Dremio** to support integration testing, analytics validation, and controlled data movement within the **MarTech ecosystem**.

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

- Supported deployment and operations of **ThingWorx IoT and Windchill PLM applications** in cloud-based environments, focusing on availability, scalability, and automation.
- Built and managed **AWS infrastructure** (EC2, S3, IAM, RDS, ECS, CloudWatch) to support PLM and IoT workloads, including simulated **high-availability and disaster recovery** scenarios.
- Automated **deployment and customization workflows** for Windchill PLM using scripting and DevOps practices, enabling faster, consistent rollouts across environments.
- Implemented centralized monitoring and alerting using **GCP monitoring tools, AWS CloudWatch, Prometheus, and Grafana** to ensure system health, proactive detection, and minimal downtime.
- Collaborated with platform, application, and infrastructure teams to support **end-to-end PLM implementations**, upgrades, and operational stability while gaining hands-on CI/CD and cloud operations experience.

NCR Corporation   **Chennai, TN**
Trainee   **Jul, 2022- Dec, 2022**

- Performed **functional and performance testing** of ATM systems to ensure reliability, accuracy, and proper operation.
- Executed **mechanical assembly of ATM units** in accordance with engineering guidelines and safety protocols.
- Supported the **integration of hardware components**, contributing to complete system build and readiness.
- Assisted in **selection of ATM components and materials** based on production and configuration requirements.
- Carried out **final quality inspections and secure packaging** of assembled units to meet technical and delivery standards.

EDUCATION

Bachelor of Engineering (Mechanical Engineering)   **Sep, 2018 – Jun, 2022**
Muthayammal Engineering College, Namakkal, Tamil Nadu | GPA: 7.63/10

PROJECTS

1. **OpsAction Unified OS – Enterprise DevOps Platform & MarTech Enablement (Internal Project)**

   - **Architected and independently developed OpsAction Unified OS**, an R&D-driven DevOps platform centralizing SSH access, Kubernetes orchestration, CI/CD actions, RBAC, and audit logging to eliminate tool sprawl and manual operations.

   - Enabled **enterprise MarTech platforms (Unica)** by providing standardized, secure operational control across development, testing, and validation environments.

   - Implemented **multi-cloud Kubernetes orchestration** (AWS, Azure, GCP) with one-click execution of operational tasks such as scaling, restarts, and rollouts without direct CLI dependency.

   - Integrated **CI/CD and GitOps workflows** to streamline deployments, improve release consistency, and reduce operational overhead.

   - Delivered **comprehensive platform documentation and runbooks**, enabling team adoption, knowledge transfer, and scalable usage across projects.

2. **24/7 IoT Web Application Support & Operations** | *PDSVISION* | *GCP, IoT, Monitoring, Mantis Bug Tracker*

   - Supported **24/7 operations** of a real-time **IoT web application** hosted on **Google Cloud Platform (GCP)**, ensuring high availability and stable performance.

   - Monitored application health, logs, and alerts, and handled issue tracking and resolution using **Mantis Bug Tracker** in coordination with development teams.

   - Performed regular **health checks, log analysis, and environment audits** to meet SLA and uptime requirements.

   - Assisted in deployment activities and operational support, contributing to **zero major escalations** during the support period.