

MADESHWARAN M

DevOps Engineer

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www.madesh.site | [GitLab](https://gitlab.com)

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 HomeLab.

SKILLS

Cloud & IaC

AWS, GCP, Terraform.

DevOps Tools

Kubernetes, Docker, Linux, Ansible, Jenkins, Maven, GitLab, SonarQube.

Monitoring Tools

Grafana, Prometheus.

WORK EXPERIENCE

DevOps Engineer

Self-Hosted HomeLab

- Built and deployed **Amazon** and **Netflix** clones in a self-hosted **HomeLab** using **Docker** and **Kubernetes** to demonstrate real-world DevOps workflows.
- Deployed **Linkding**, a self-hosted bookmark manager, with **Kubernetes**, ensuring **persistent storage** and **secure reverse proxy** setup.
- Implemented a **two-tier architecture** project by connecting a **Java-based application** with a **MongoDB** database using isolated **Docker containers** communicating over a **bridge network**.
- Experimented with **containerized environments** by creating a custom “**Suicide Linux**” user that executes destructive commands on incorrect input.
- Designed and maintained a self-hosted **HomeLab** environment to **deploy, test, and experiment** with containerized applications and **DevOps tools**.

PDSVISION

Junior PLM Consultant

Chennai, TN

Jan, 2023- Feb 2025

- Installed and upgraded **Windchill** (v11, 12, 13), including data code updates, CPS, rehosting, renaming, and **SSO integration** for secure and efficient performance.
- Configured the **PartsLink module**, alias, and cascading attributes; set up **Creo** and **Windchill Connect** for worker configuration and parts publishing.
- Implemented **Change Management** processes and developed custom **JasperReports** to meet customer-specific needs.
- Monitored **infrastructure** and **application performance** using **Google Cloud Platform (GCP)** tools to ensure high availability and system reliability.

NCR Corporation

Intern

Chennai, TN

Jul, 2022- Oct, 2022

- Verified the functionality and performance of **ATMs** through detailed testing.
- Supported the mechanical assembly and construction of **ATM units**.
- Selected and securely packed **ATM components** for production and shipment.
- Conducted final inspections to ensure adherence to **quality standards** before deployment.

EDUCATION

BE in Mechanical Engineering

Muthayammal Engineering College, Namakkal, Tamil Nadu GPA: 7.63/10

Sep, 2018 – Jun, 2022

10th & 12th

A.K.T Academy Matriculation Higher Secondary School, Kallakurichi, Tamil Nadu.

2016 – 2018