MADESHWARAN M
DevOps Engineer

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www.madesh.site | **GitLab | Linkedin**

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 **Amazon Prime** and **Netflix clones** in a self-hosted **HomeLab** using **Jenkins** CI/CD, **Docker**, and **K3s** to showcase real-world DevOps workflows.
- Implemented scalable, secure, and high-performance **web applications** using **AWS 3-Tier Architecture**, optimized for reliability and efficiency.
- Deployed **Linkding**, a self-hosted bookmark manager, and a **Super Mario** clone in a self-hosted HomeLab using **K3s**.
- Implemented a **two-tier architecture** by connecting a **Java-based application** with a **MongoDB** database using isolated **Docker containers.**
- I created and launched my own **personal website** using a custom domain name. The site showcases my projects, skills, and serves 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 Academy Matriculation Higher Secondary School, Kallakurichi, Tamil Nadu.