



Syed Ahamed

DEVOPS ENGINEER

Profile

Dynamic DevOps Engineer with over two years of experience in managing and automating large-scale infrastructure across maritime environments. Expertise in containerization technologies such as Docker and Kubernetes, alongside strong capabilities in implementing CI/CD pipelines using GitLab and GoCD. Proficient in leveraging AWS cloud services to enhance system reliability and performance while driving automation and monitoring initiatives. Committed to building resilient and scalable systems that optimise operational efficiency and minimize manual intervention. A proven track record of developing comprehensive monitoring solutions that empower teams to proactively address system challenges.

Education

B.E CSE, sathayabama institute of science and technology , Chennai

JUNE 2019 – JUNE 2023

Employment History

DevOps, Magellanx, chennai

AUGUST 2023 – AUGUST 2024

- **Docker:** Solid foundational understanding of Docker; experienced in creating, running, and managing containers for development and testing environments.
- **Kubernetes:** Familiar with deploying and managing small-scale containerized applications; understanding of core concepts such as Pods, Services, and Deployments.
- **Monitoring & Observability:** Practical experience with Prometheus and Grafana for basic monitoring setups and system metric visualizations.
- **CI/CD Pipelines:** Hands-on experience building simple CI/CD pipelines using GitLab to automate code integration and deployment workflows.
- **Databases:** Beginner-level proficiency in CouchDB, PostgreSQL, and MySQL with hands-on experience in basic queries and data operations.
- **Scripting & Automation:** Capable of writing Bash and Python scripts to automate routine tasks and improve operational efficiency.
- **System Monitoring:** Able to perform basic server performance monitoring and troubleshooting using logs and system metrics.
- **Dashboards:** Experience in creating visual dashboards for CPU, memory, disk, and network usage to support system observability. Experience creating dashboard visualizations for CPU, memory, disk, and network metrics to support basic system observability.

Devops, MISC marine , Chennai

SEPTEMBER 2024 – PRESENT

- **Managed and automated infrastructure** across 100+ edge servers deployed on maritime vessels, ensuring high availability and optimal performance.
- **Orchestrated containerized applications** using Docker and Kubernetes on AWS EKS, enabling scalable and resilient deployments.
- **Designed and developed EKS-based application infrastructure**, incorporating best practices for scalability, security, and maintainability.
- **Designed and developed AWS lower environments** (Dev, QA, Staging), enabling safe and consistent application testing and validation before production rollout.

Details

Chennai

India

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Skills

Containerization: Docker

CI/CD Tools: GitLab CI/CD, GoCD, Jenkins

Cloud Platforms: Amazon Web Services (AWS), Microsoft Azure, Google cloud

Orchestration: Kubernetes (AWS EKS)

Scripting: Bash, python

Database Management: PostgreSQL, MySQL, CouchDB

Monitoring & Logging: Prometheus, Grafana, InfluxDB, Telegraf, API Monitoring, Self-Healing Systems

Operating Systems: Linux (ubuntu)

Configuration Management: Ansible, Terraform

Reverse Proxy: NGINX Ingress, Istio mesh

Security: Teleport, Self-hosted Bitwarden

Performance Optimisation: Server Management Platform, Report Automation

Development & Collaboration: Admin Tools, Multi-user Access, Production Data Access Optimisation

Languages

English

Tamil

Urdu

Hindi

- **Designed and built ETL infrastructure** to handle large-scale production data, ensuring efficient data extraction, transformation, and loading with high reliability.
- **Proactively monitored and troubleshot** edge server issues, maintaining high system uptime and reliability.
- **Implemented CI/CD pipelines** using GitLab and GoCD, streamlining development-to-production workflows and reducing deployment time.
- **Automated Docker operations and system tasks** via Bash scripting, significantly improving operational efficiency and reducing manual interventions.
- **Deployed centralized logging and monitoring** solutions with Prometheus, Grafana, Node Exporter, InfluxDB, and Telegraf, enabling real-time issue detection and resolution.
- **Built custom Grafana dashboards** for real-time visibility into Docker container metrics, system health, API usage, VNStat, and CloudRouter metrics.
- **Hands-on experience with Istio service mesh and NGINX Ingress** on AWS EKS, managing ingress traffic and TLS termination.
- **Designed and developed a server management web application** optimized for maritime operations, enabling efficient data transfers and report generation.
- **Engineered a peer-to-peer VPN solution** across 60+ vessels, allowing secure, scalable remote access without reliance on static tunnels.
- **Developed an Ansible-based continuous deployment system** for automated backup and restore, enhancing deployment consistency and reliability.
- **Replaced unstable Samba file sharing** with a custom rsync-based SMB solution, improving data transfer reliability and reducing manual overhead.
- **Designed and built robust data pipelines** with integrated validation layers, ensuring data accuracy and consistency.
- **Collaborated cross-functionally** with development and data engineering teams to support seamless data integration and operations.
- **Experienced in database management and workflows** using CouchDB, PostgreSQL, and MySQL.

Courses

AWS Certified Solutions Architect - Associate, Udemy

Bash Script, Udemy

Linux, Udemy

EKS , Udemy

Certificate

Microsoft Certified: Azure Administrator Associate