Syed Ahamed

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SUMMARY

DevOps / Platform Engineer with hands-on experience across cloud and edge environments, specializing in AWS and Azure infrastructure and large-scale vessel-based systems. Strong background in Kubernetes (EKS/AKS), Infrastructure as Code, and CI/CD automation, with a proven track record of building self-healing, highly available platforms in low-bandwidth, mission-critical environments. Expert in observability, automation, and distributed systems, consistently improving uptime, reducing MTTR, and standardizing cloud provisioning from Dev to Production.

EXPERIENCE

MISC Marine, ***DevOps***

Managed 100+ vessel-based edge servers and cloud-native platforms (AWS EKS / Azure AKS), sustaining 99.9% application and infrastructure uptime in low-bandwidth, mission-critical environments. Owned application uptime monitoring, SLIs/SLOs, and 299.5% SLA compliance, implementing proactive health checks, alerting, and escalation workflows. Built and maintained CI/CD pipelines (GitLab CI + Ansible) for both cloud and edge deployments, enabling safe rollouts and reducing deployment failures by ~35-40%. Designed and implemented self-healing infrastructure and application workflows (CPU, memory, disk, Docker, network, services), reducing manual intervention by ~70% and MTTR by ~40%. Architected bi-directional CouchDB replication (vessel cloud) with conflict handling, monitoring, and automated recovery to support disconnected edge operations. Deployed and operated high-availability CouchDB clusters on EKS with NGINX load balancing, automated backups, and replication, achieving 1.4x-19x performance improvements. Managed RabbitMQ, Redis, and Elasticsearch platforms, implementing queue depth monitoring, cache optimization, shard health tracking, and capacity planning for reliable message and data flow. Implemented NGINX Ingress Controller for traffic routing and TLS termination, reducing API latency by ~20%. Deployed Istio service mesh for mTLS, retries, timeouts, and traffic control, improving inter-service reliability by ~25%. Centralized full-stack observability using Prometheus, Grafana, InfluxDB, and Telegraf, enabling faster detection and response to incidents. Applied cloud cost-optimization strategies (right-sizing, autoscaling, storage tuning, idle resource cleanup), reducing infrastructure spend by ~25-40%. Engineered secure P2P VPN connectivity across 60+ vessels, improving data synchronization reliability while reducing network costs by ~50.

EDUCATION

Sathyabama Institute of Science and Technology

B.E. • ***Computer Science and Engineering***

LICENSES & CERTIFICATIONS

Microsoft Certified: Azure Administrator Associate

SKILLS

Containerization: Docker • CI/CD: GitLab CI/CD, GoCD, Jenkins, GitHub • Cloud Platforms: AWS, Azure • Orchestration: Kubernetes (EKS, AKS) • Scripting: Bash, Python • Databases: PostgreSQL, MySQL, CouchDB • Monitoring & Logging: Prometheus, Grafana, InfluxDB, Telegraf, API Monitoring • Operating Systems: Linux (Ubuntu) • Configuration Management: Ansible, Terraform • Ingress & Service Mesh: NGINX Ingress, Istio