Muhammad Ali N

+91 86061 43897 • ali.nazarudeen14@gmail.com

linkedin.com/in/muhammadalin • muhammadali1405.github.io

DevOps / Site Reliability Engineer with 4+ years of experience operating large-scale Kubernetes production platforms (90-node clusters, 500+ pods) supporting 40+ microservices and 10,000+ daily active users. Proven expertise in autoscaling architecture (HPA & Cluster Autoscaler), cloud cost optimization (20–30% reduction), high-availability distributed systems, and production incident management. Strong hands-on experience across GCP and Azure environments with deep focus on reliability, performance, and infrastructure efficiency.

WORK EXPERIENCE

UST Global, Trivandrum, Full Time • 03/2025 - Present
Developer II, DevOps Engineering
- Operates and maintains a 90-node production Kubernetes cluster (GKE & AKS) running 500+ pods across 40+ customer-facing microservices serving 10,000+ daily active users.
- Designed autoscaling architecture using HPA (CPU & memory via Prometheus metrics) with scaling ranges from 10–50 pods, reducing peak-load latency while improving workload elasticity.
- Implemented Kubernetes Cluster Autoscaler to dynamically adjust node pool capacity based on workload demand, eliminating idle compute and improving infrastructure efficiency.
- Reduced GCP infrastructure cost by approximately 20–30% through rightsizing workloads, idle node optimization, resource tuning, and adoption of reserved instances for predictable production workloads.
- Reduced MTTR by implementing structured alert tuning using GCP Monitoring and Grafana alerts, improving incident visibility and response workflows.
- Resolved critical production outage involving Azure node pool quota exhaustion, restoring cluster stability under subscription capacity constraints.
- Managed Redis Sentinel (3-node HA setup) and performed rolling upgrades ensuring high availability and zero data loss.
- Led lifecycle upgrades of Kafka and VerneMQ clusters using controlled rolling deployment strategies with minimal downtime.
- Improved PostgreSQL performance by implementing indexing strategies and analyzing slow query logs, resulting in measurable CPU utilization reduction.
- Developed custom Prometheus exporters for Redis, Kafka, and VerneMQ, strengthening observability and proactive failure detection.
- Standardized multi-environment Kubernetes deployments through centralized Helm chart repositories and configuration governance.

Valoriz Digital PVT Ltd, Trivandrum, Full Time • 09/2021 - 03/2025
Senior DevOps Engineer
- Led the development and implementation of numerous advanced CI/CD pipelines in Azure DevOps, enhancing system reliability and deployment efficiency by 30%.
- Successfully maintained 99.9% uptime for a suite of over 200 microservices by refining and automating monitoring and alerting processes.
- Oversaw cloud infrastructure, including the management of VMs, network configurations, and storage solutions, ensuring system scalability and stability.
- Implemented new technologies and process improvements in Azure cloud platform, achieving a 25% improvement in security posture and operational efficiency.
- Led Troubleshooting and supporting pipeline and microservice issues in AKS, reducing downtime by 40%. ● Established effective collaboration processes across departments, facilitating contributions that led to a 15% improvement in project delivery timelines.
- Analyzed and monitored monthly metrics and KPIs, resulting in a consistent application of operational standards and a 10% improvement in service level adherence.

CERTIFICATIONS

Certified: Azure Solutions Architect Expert

Microsoft - 2024

Certified: GitHub Actions
Microsoft - 2026

Certified: Azure Administrator Associate
Microsoft - 2024

SKILLS
- **Cloud Platforms:** Azure, Google Cloud Platform (GCP)
- **Containers & Orchestration:** Kubernetes (GKE, AKS), Helm
- **CI/CD & Automation:** GitHub Actions, Jenkins, Azure DevOps
- **Observability & Monitoring:** Prometheus, Grafana, ELK Stack, Splunk
- **Databases:** PostgreSQL, MongoDB
- **Messaging & Caching:** Kafka, Redis, VerneMQ
- **Scripting:** Python, Bash
- **Practices:** Incident Management, Root Cause Analysis (RCA), Cost Optimization, High Availability Design, Autoscaling Architecture

EDUCATION

B.Tech in Computer Science & Engineering
UKF College of Engg and Technology •
APJ Abdul Kalam Technological University(KTU) •
2017 - 2021