Yousaf K H

Senior DevOps Engineer
SRE | DevSecOps Engineer

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Professional Summary

Senior DevOps/DevSecOps Engineer with 8+ years of experience designing secure, scalable, and compliant cloud infrastructure across fintech and enterprise environments. Expert in AWS, Kubernetes, Terraform, GitOps, CI/CD automation, cloud security, and operational excellence. Strong background in regulatory compliance (SOC2, ISO27001, CBUAE), observability, cost optimization, and modernizing legacy systems. Proven ability to architect resilient cloud platforms, automate security, and lead cross-functional teams.

Technical Skills

- Cloud: AWS (expert), Azure, GCP
- IaC: Terraform, CloudFormation, Ansible
- CI/CD & GitOps: GitHub Actions, Jenkins, Argo CD, Helm, Kustomize, CodePipeline
- Containers: Docker, Kubernetes (EKS), ECS
- Security: Trivy, Snyk, SonarQube, Checkov, DAST/SAST/SCA, Vault, GuardDuty, Wazuh
- Compliance: SOC 2, ISO 27001, CBUAE, audit automation
- Monitoring: Prometheus, Grafana, Loki, ELK, CloudWatch, Zabbix
- Scripting: Bash, Python
- Databases: PostgreSQL, MySQL, MSSQL, DynamoDB
- OS: Linux (RHEL, Ubuntu), Windows
- Version Control: GitHub, Bitbucket, GitLab

Professional Experience

DevOps Engineer | Pay10 UAE, United Arab Emirates
Oct 2025 – Present

- Architected and managed secure AWS ECS microservices using Terraform with HA, auto-scaling, and compliance-ready design.
- Strengthened cloud security posture by integrating Wazuh, GuardDuty, AWS Config, and CloudWatch, and built real-time Slack monitoring dashboards consolidating alerts from ECS, Wazuh, and GuardDuty for faster incident response.
- Designed and implemented automated infrastructure cost-optimization strategies using CloudWatch metrics, Compute Savings Plans, and rightsizing recommendations, reducing monthly AWS spend by 20% without impacting performance or availability.
- Implemented least-privileged IAM, encrypted networking, and PIM/PAM access controls for production systems.
- Deployed hybrid connectivity using OpenVPN, Site-to-Site VPN, and Direct Connect Gateway for merchant integrations.
- Integrated HashiCorp Vault with GitHub Actions and Jenkins for dynamic secrets management.
- Embedded Trivy, SonarQube, Checkov, and compliance scans into CI/CD, reducing deployment risks by 40%.
- Designed CloudWatch to S3 Glacier archival pipelines for SOC2/PCI/CBUAE audit retention.
- Standardized secure deployment workflows with Dev and Compliance teams across fintech services.

Senior DevOps Engineer | Alamy, Trivandrum, India,

Nov 2023 – Oct 2025

- Built cloud-native AWS infrastructure using Terraform, EKS, Docker, GitHub Actions, Jenkins, Helm.
- Designed DR and HA arch for MSSQL, MySQL, PostgreSQL, and Redis with Terraform automation.
- Reduced vulnerabilities by 90% through SAST/DAST/SCA integrations (Grype, SonarQube).
- Implemented GitHub Actions self-hosted runners on AWS to improve CI cost and efficiency.
- Built complete observability stack using Prometheus, Grafana, and Loki.
- Migrated Solr to AWS OpenSearch and on-prem NGINX Gateway to EKS, improving performance and reliability.
- Integrated Azure Active Directory SSO for secure unified access across internal tools.
- Automated OpenSearch provisioning, scaling, and monitoring with Terraform and Python.

Senior Platform Engineer | Quantiphi, Trivandrum, India,

Aug 2021 – Nov 2023

- Delivered multi-environment AWS DevOps platforms with Terraform, CloudFormation, and automated CI/CD.
- Implemented CodePipeline workflows by reducing release cycles by 25%.
- Managed Kubernetes deployments with blue green/rolling updates, secrets management, and observability.
- Set up central ELK logging for incident response and root cause analysis.
- Mentored junior engineers and led project KT sessions.

Site Reliability Engineer | Armia Systems, Ernakulam, India,

June 2020 - Aug 2021

- Automated EC2 configuration, patching, and infrastructure tasks using Ansible and Bash.
- Deployed Zabbix/Nagios monitoring for 100+ servers improving uptime and response times.
- Defined SLAs/SLOs and improved reliability processes across environments.

TechOps Engineer | Activelobby IS, Ernakulam, India,

Oct 2018 – Feb 2020

- Managed AWS/Linux infrastructure and automated staging environments.
- Created Shell/Python automation for provisioning, backups, and system health checks.
- Led a 5-member technical support team and improved operational efficiency by 40%.

Key Achievements

- Reduced CI/CD cycle time by 25% using GitHub Actions and Jenkins.
- Eliminated 90% of vulnerabilities via DevSecOps automation.
- Built multi-cloud infrastructure across AWS & Azure with modular Terraform.
- Scaled Kubernetes workloads using Helm and Kustomize across environments.

Certifications

- [Certified Kubernetes Administrator](#) (The Linux Foundation).
- [AWS Certified Solutions Architect Associate](#) (AWS).
- [Terraform Associate Certification](#) (KodeKloud).

Education

MSc Computer Science (2021 - 2023), Bharathiar University, India.
BTech Computer Science (2014 - 2018), North East Frontier Technical University, India.

Soft Skills

- Team leadership, cross-team collaboration, analytical problem solving, mentoring, agile delivery