

Yousaf K H

Senior DevOps Engineer SRE | DevSecOps Engineer

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Professional Summary

Results-driven DevOps/DevSecOps and Cloud Engineer with 8 years of experience in architecting secure, scalable infrastructure and automating CI/CD pipelines across enterprise and fintech environments. Skilled in implementing DevSecOps strategies, optimising cloud costs, and modernising infrastructure using Terraform, Kubernetes, and AWS services. Experienced in enhancing compliance and security posture for financial applications, ensuring resilience, observability, and regulatory alignment in production systems.

Technical Skills

- Cloud Platforms: AWS (Primary), GCP, Azure
- Infrastructure as Code: Terraform, CloudFormation, Ansible
- CI/CD & GitOps: GitHub Actions, AWS CodePipeline, Jenkins, Argo CD, Helm, Kustomize
- Containers & Orchestration: Docker (ECS), Kubernetes (EKS)
- Security: SAST, SCA, DAST, OWASP ZAP, Wazuh, GuardDuty, Trivy, Snyk, Checkov, SonarQube, Gripe
- Monitoring & Logging: Prometheus, Grafana, Zabbix, ELK, Nagios, Loki, CloudWatch, New Relic
- Scripting: Bash, Python
- Databases: PostgreSQL, MySQL, MariaDB, DynamoDB
- Operating Systems: Linux (RedHat, Ubuntu, CentOS), Windows
- Version Control: GitHub, Bitbucket, GitLab, AWS CodeCommit

Professional Experience

DevOps Engineer | Pay10 UAE, United Arab Emirates

Oct 2025 – Present

- Architected and managed a secure, high-availability AWS ECS microservices infrastructure using Terraform ensuring seamless auto-scaling and resilience comparable to prior EKS setups.
- Enhanced cloud security posture by integrating Wazuh, AWS Config, and CloudWatch for real-time threat detection, compliance monitoring, and log analytics across fintech workloads.
- Built a real-time alerting system with AWS Lambda and Slack, automating notifications for critical GuardDuty and Wazuh events, cutting response time by 60%.
- Implemented least-privilege IAM models and fine-grained access controls across ECS, S3, and Lambda, improving audit readiness and minimizing the attack surface.
- Configured secure site-to-site VPN communication using OpenVPN between AWS and merchant networks, ensuring encrypted data transmission and stable interconnectivity for fintech transactions.
- Deployed PIM/PAM access controls for production Linux and Windows servers, improving privileged access governance and operational accountability.
- Embedded automated security scans (Trivy, Checkov, SonarQube) and compliance validation into CI/CD pipelines, accelerating secure deployments by 40%.
- Enforced compliance and governance aligned with fintech, SOC, and CBUAE regulatory standards through automated policy checks and audit reporting.
- Collaborated with Dev and Compliance teams to standardize secure deployment workflows and approval gates, ensuring fintech-grade governance across environments.

Senior DevOps Engineer | Alamy, Trivandrum, India,

Nov 2023 – Oct 2025

- Architected and implemented cloud-native infrastructure on AWS using Terraform, Docker, EKS, Jenkins, GitHub Actions, and Helm to enable scalable, secure, and fully automated CI/CD pipelines.
- Implemented high-availability and disaster recovery architecture for MSSQL, MySQL, PostgreSQL, and AWS ElastiCache (Redis) across multiple environments, fully provisioned and managed through Terraform with CloudWatch monitoring and IAM-based security.
- Engineered automation solutions using Python (AWS Lambda) and Bash for large-scale systems, pipelines, and on-server operations, enhancing reliability and reducing manual intervention.
- Reduced vulnerabilities by 90% by integrating SAST, DAST, Gype and SonarQube into CI/CD.
- Improved CI speed and flexibility by deploying GitHub Actions self-hosted runners on AWS.
- Enforced consistency across environments using Helm and Kustomize in Kubernetes deployments.
- Built an observability platform using Grafana, Prometheus and Loki for proactive monitoring.
- Collaborated closely with development, QA, and security teams to align infrastructure changes with application requirements, reducing misconfigurations and deployment issues.
- Integrated Azure AD SSO with internal tools, improving access control and user experience.
- Migrated legacy services (e.g., Solr to AWS OpenSearch, on-prem NGINX to AWS EKS) and modern applications (Node.js, TypeScript, React.js) to AWS-native and AWS EKS.
- Automated OpenSearch cluster provisioning, scaling, and monitoring with Terraform and scripts.
- Experienced in cloud security best practices, IAM policies, and threat scanning.
- Secured AWS and Kubernetes access with RBAC and enforced MFA for tighter identity control.

Senior Platform Engineer | Quantiphi, Trivandrum, India,

Aug 2021 – Nov 2023

- Architected end-to-end, multi-environment DevOps workflows with scalable, secure, and automated infrastructure on AWS.
- Streamlined CI/CD pipelines using AWS CodePipeline, reducing release cycles by 25%.
- Built and optimised end-to-end database infrastructure, including PostgreSQL, MSSQL, MariaDB, with performance tuning and replication.
- Used CloudFormation for legacy stack provisioning alongside Terraform.
- Created DynamoDB tables and AWS ElastiCache (Redis) clusters infrastructure for caching.
- Developed and deployed blue-green deployment strategies integrated with security checks.
- Managed Kubernetes workloads end-to-end using deployments, services, ingress, config maps, and secrets for secure, scalable delivery.
- Set up and managed centralised logging with the ELK stack (Elasticsearch, Logstash, Kibana) to enhance observability and accelerate incident response.
- Mentored juniors and led KT sessions, improving team performance and onboarding efficiency.

Site Reliability Engineer | Armia Systems, Ernakulam, India,

June 2020 - Aug 2021

- Delivered AWS-based Linux infrastructure support and automated configuration and patching with Ansible across multi-node EC2 setups.
- Deployed monitoring using Zabbix/Nagios for 100+ shared servers.
- Improved system uptime and reliability by automating incident response and implementing robust monitoring and alerting practices.
- Proactively defined and tracked SLAs & SLOs for core services to maintain reliability and resolution.

TechOps Engineer | Activelobby IS, Ernakulam, India,

Oct 2018 – Feb 2020

- Led a 5-member tech support team, managing AWS and Linux-based environments.
- Automated infrastructure for staging environments and hardened servers with backup policies.
- Created shell/Python scripts to automate user provisioning, backup, restore, and environment health checks, reducing manual workload by 40%.

Key Achievements

- Reduced CI/CD cycle time by 25% using GitHub Actions and Jenkins.
- Eliminated 90% of pre-release vulnerabilities via DevSecOps automation.
- Provisioned multi-cloud infra (AWS/Azure) using modular Terraform.
- Scaled Kubernetes deployments on EKS using Helm and Kustomize.

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

- Led Agile teams with a focus on strategic planning and mentorship.
- Effective cross-team communication
- Analytical decision making and problem solving