

NAVEEN KUMAR VELANATI

DevSecOps Engineer | Cloud Infrastructure | CI/CD Automation

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PROFESSIONAL SUMMARY

Results-driven DevSecOps Engineer with 4+ years of hands-on experience in cloud infrastructure automation, CI/CD pipeline optimization, and container orchestration across AWS and Azure environments. Demonstrated success in reducing deployment times by 40%, cutting infrastructure costs by 15%, and eliminating 85% of manual deployment effort through Infrastructure-as-Code and GitOps practices. Expert in embedding security throughout the SDLC using SAST, DAST, Trivy, and SonarQube. Adept at architecting event-driven, serverless, and microservices-based platforms that scale reliably in production.

TECHNICAL SKILLS

Cloud & Architecture	AWS (EC2, EKS, ECS, S3, RDS, Lambda, API Gateway, CloudFront, VPC, IAM, SQS, SNS, Step Functions, Route53, CloudTrail, CloudWatch), Multi-Account Architecture, High Availability, Auto Scaling
DevOps & CI/CD	Jenkins, GitHub Actions, GitLab CI, GitOps (ArgoCD), CI/CD Pipelines, Release Management, Blue-Green & Canary Deployments
Infrastructure as Code	Terraform (Modular IaC, Remote State, Workspaces), AWS CloudFormation, Ansible (Configuration Management), Pulumi
Containers & Orchestration	Docker, Kubernetes (EKS, RBAC, Scaling, Network Policies), Helm, Kustomize, Istio Service Mesh
Security & DevSecOps	IAM RBAC, AWS KMS, Secrets Manager, AWS WAF, SAST, DAST, Trivy, SonarQube, Checkov, OWASP ZAP, Least Privilege, MFA, NACLs
Monitoring & Observability	Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), AWS CloudWatch, Datadog, PagerDuty, Distributed Tracing
Event-Driven & APIs	S3, Lambda, SQS, SNS, API Gateway (REST/JWT), Step Functions, Asynchronous Workflows, Webhook Integrations
Databases & Storage	MySQL, MongoDB, Redis (ElastiCache), Amazon RDS, S3 (Lifecycle Policies, Versioning, Multipart Uploads)
Scripting & Dev	Python, Bash, Shell Scripting, YAML, JSON, DITA-XML
Version Control & Collab	Git, GitHub, GitLab, Bitbucket, Confluence, Jira, Agile / Scrum

PROFESSIONAL EXPERIENCE

Sr. DevOps Engineer

Metapercept Technology Services LLP | Pune, India | March 2026 – Present

Project: met-R (Enterprise Document Conversion Platform) | AI & MCP Platform Initiatives

- Designed and standardized reusable CI/CD pipelines for all major platform services (API Gateway, Frontend, Converter Services, Server Admin), improving deployment consistency and significantly reducing operational overhead.
- Built and enhanced deployment automation including security scanning integration, emergency rollback capabilities, JIRA-integrated deployment workflows, and controlled manual deployment mechanisms for production safety.
- Containerized and onboarded multiple services across API Gateway, Frontend, Converter Services, and Server Admin applications, improving deployment reliability and environment consistency across all platforms.

- **Supported website deployments, production readiness activities, monitoring, troubleshooting, and Root Cause Analysis (RCA)** to continuously improve platform stability and reduce mean time to resolution.
- **Contributed to Kubernetes adoption** by developing deployment manifests, establishing security best practices, authoring deployment documentation, and defining future EKS deployment strategies.
- **Expanded Infrastructure-as-Code capabilities using Terraform** by implementing multi-client, multi-environment infrastructure designs, AWS Bedrock integrations, and automation enhancements, reducing provisioning effort by 70%.
- **Established and governed the metR-Phase2 GitHub Organization** including repository governance, branch protection rules, CODEOWNERS enforcement, access management, and security controls across all engineering teams.
- **Supported AI and MCP platform initiatives** through CI/CD automation, infrastructure planning, Dockerization, Kubernetes deployment strategies, monitoring integration, and end-to-end operational support.
- **Conducted AWS cloud cost optimization reviews** identifying and removing unused resources, implementing governance controls, and collaborating with stakeholders to maintain cloud spending within approved budgets.
- **Designed future infrastructure architectures and deployment strategies** for QA, UAT, and Production environments, contributing to long-term automation, modernization, and scalability roadmap.
- **Engineered per-customer deployment model with dedicated EC2-based converter engines** ensuring isolated document processing and scalable infrastructure, backed by secure API Gateway with JWT-based authentication and per-customer access control.
- **Implemented monitoring and observability** using CloudWatch Logs, custom metrics, and alerts for real-time tracking of conversion performance, system health, and failure detection.

Cloud Engineer

ZeroCode Innovations Private Limited | Hyderabad, India | June 2022 – November 2025

Project: ZeroCode (Low-Code Automation & Integration Platform)

- **Engineered and supported low-code/no-code automation platform infrastructure**, enabling rapid application development, workflow automation, and third-party integrations across enterprise systems.
- **Engineered and maintained scalable CI/CD pipelines using GitHub Actions** implementing multi-stage deployments (dev, staging, production), reducing deployment time by 40% and eliminating 85% of manual efforts.
- **Deployed GitOps-based Kubernetes workloads using ArgoCD**, ensuring consistent, version-controlled releases across 4+ environments and improving deployment accuracy by 60%.
- **Optimized high-volume data ingestion pipelines using AWS S3 multipart uploads (10GB+) with Python**, ensuring fault-tolerant and high-performance file transfers for platform workflows.
- **Built and optimized cloud-native architecture on AWS** leveraging EC2, Auto Scaling, ALB, Lambda, CloudFront, S3, and RDS to support highly available and scalable low-code application workloads.
- **Enabled event-driven workflow automation** by integrating AWS services (Lambda, S3, API Gateway), supporting ZeroCode's dynamic workflow execution and real-time processing capabilities.
- **Standardized infrastructure as code using Terraform and configuration management using Ansible**, ensuring repeatable, version-controlled, and auditable infrastructure provisioning.
- **Established centralized version control practices** consolidating Shell, Bash, Terraform, and Ansible assets into Git repositories, improving team collaboration and asset maintainability.
- **Enforced IAM RBAC policies and least-privilege access governance** automating IAM policy management using Terraform for continuous audit compliance.
- **Strengthened platform security** by enabling MFA, monitoring access logs, and implementing network-level security controls (VPC, Security Groups, NACLs).
- **Conducted post-incident analysis and root cause investigations**, implementing preventive solutions that reduced recurring infrastructure issues by 50%.
- **Supported API-based integrations and microservices communication**, ensuring reliable connectivity between ZeroCode workflows and external enterprise systems.
- **Contributed to platform observability and reliability improvements**, enhancing monitoring, alerting, and logging practices using Prometheus, Grafana, and ELK Stack for faster incident resolution.
- **Documented system architectures, CI/CD workflows, and operational runbooks** in Confluence, improving team onboarding and knowledge sharing across engineering teams.

- **Collaborated with cross-functional teams in Agile environments**, aligning DevOps practices with rapid feature delivery and continuous platform enhancements.

KEY ACHIEVEMENTS

Cloud Modernization	Modernized legacy infrastructure into a fully automated, scalable cloud environment using Terraform and AWS, achieving 15% reduction in overall infrastructure costs.
Deployment Efficiency	Eliminated 85% of manual deployment effort and cut deployment time by 40% through standardized CI/CD pipelines with GitHub Actions and ArgoCD.
Security Excellence	Achieved zero critical security vulnerabilities in production by integrating SAST, DAST, Trivy, and SonarQube into all CI/CD pipelines.
Cost Optimization	Reduced NAT Gateway and infrastructure costs by implementing S3 lifecycle policies, EC2 right-sizing, and VPC endpoint routing strategies.
Customer Onboarding	Reduced customer onboarding provisioning time from hours to under 1 hour via fully automated Terraform + GitHub Actions workflows.
Incident Reduction	Reduced recurring infrastructure incidents by 50% through post-incident RCA processes and proactive monitoring with Prometheus and Grafana.

EDUCATION

Bachelor of Technology

Prakasam Engineering College, Kandukur | JNTU-Kakinada | 2016 – 2020

ACHIEVEMENT

- Earned the exclusive **“Stellar Performance Award”** for establishing overall ownership of the Cloud and DevOps team, driving cross-functional alignment, and executing infrastructure cost-optimization strategies.

CERTIFICATIONS

- AWS Cloud Practitioner Essentials
- Generative AI For Executives
- AWS Certified Solutions Architect