

Maneeshwar Marpu

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SUMMARY

DevOps and Cloud Engineer with 4+ years of experience designing and managing secure and highly available cloud infrastructure across AWS and Azure environments. Experienced in implementing CI/CD pipelines, Infrastructure as Code, container orchestration, cloud-native deployments, and DevSecOps practices to accelerate software delivery while improving platform reliability and operational efficiency. Proficient in Kubernetes, Helm, Kustomize, GitLab CI/CD, Azure DevOps, container registry management, monitoring, logging, and cloud security frameworks, including IAM, KMS, Security Hub, SOC 2, and ISO 27001. Skilled in collaborating with cross-functional teams throughout the SDLC using agile methodologies to build resilient cloud solutions and support enterprise-scale applications.

SKILLS

Methodologies: SDLC, Agile (Scrum), Waterfall, Test-Driven Development (TDD), Continuous Integration & Continuous Delivery (CI/CD)
Cloud Platforms & Services: AWS (EC2, S3, ECS, Lambda, SQS), Azure (Key Vaults, Pipelines), Multi-Cloud & Hybrid Architectures, Serverless Architectures, FinOps (Cost Optimization)
Containers & Orchestration: Docker, Kubernetes (EKS, AKS), OpenShift, Helm, Kustomize, Service Mesh, Container Registry (ECR)
Infrastructure as Code (IaC) & Automation: Terraform, CloudFormation, Pulumi, Ansible, Policy-as-Code (OPA, Sentinel), Jenkins, GitHub Actions, GitLab CI/CD, Azure DevOps Pipelines, Spinnaker, GitOps (ArgoCD, FluxCD)
Monitoring, Logging & Observability: Prometheus, Grafana, ELK/EFK Stack, Splunk, OpenTelemetry, AWS CloudWatch, Jaeger, Zipkin
Security & Compliance (DevSecOps): IAM, KMS, Security Hub, Vault, Secrets Management, SAST/DAST (SonarQube, Checkmarx, OWASP ZAP), Container Security (Trivy, Aqua, Falco), Zero Trust Architecture, SOC2, ISO 27001, NIST 800-53
Programming & Scripting: Python, Bash, Shell, PowerShell
Version Control & Databases: Git, GitHub, GitLab, Bitbucket, SVN, PostgreSQL, MySQL, MongoDB, DynamoDB, Azure SQL, Redis
Emerging Cloud Practices: AIOps, Cloud-Native DevSecOps, GitOps, Cost Optimization (FinOps), Hybrid Cloud Strategies

EDUCATION

Master of Science in Engineering Data Science | University of Houston, Houston, TX May 2026

PROFESSIONAL EXPERIENCE

Capital One, California, USA Sep 2025 – Present
DevOps Engineer

- Engineered secure cloud infrastructure by implementing Azure Key Vault for centralized secrets management, and identity-based access controls across enterprise applications, improving credential security by 42% while eliminating hardcoded secrets and strengthening compliance with organizational governance requirements.
- Designed resilient multi-cloud and hybrid cloud architectures integrating Azure with on-premises infrastructure and additional cloud platforms, and infrastructure automation that reduced environment provisioning time by 38% while increasing operational consistency and business continuity across production systems.
- Built serverless architectures using Azure Functions, event-driven workflows, and deployment pipelines to process application workloads efficiently, decreasing infrastructure operating costs by 36% while improving application responsiveness, resource utilization, and release scalability for business-critical services.
- Implemented enterprise observability by deploying and optimizing the ELK/EFK Stack for centralized log aggregation, and increasing incident visibility by 47% while accelerating root cause identification through structured dashboards, alerting mechanisms, and searchable log repositories.
- Strengthened cloud security posture by integrating Open Policy Agent (OPA) policy enforcement with Infrastructure as Code validation and compliance verification, reducing configuration policy violations by 41% while ensuring standardized governance across containerized workloads and continuous deployment environments.
- Enhanced DevSecOps practices by implementing SOC 2 security controls together with automated SAST/DAST security scanning throughout CI/CD pipelines, and improving remediation efficiency by 44% while supporting secure software delivery and continuous compliance across development and production environments.

Motorola Solutions Pvt. Ltd, Bangalore, India Mar 2022 – Jul 2024
Software Engineer/DevOps & Site Reliability Engineering

- Concocted highly available cloud infrastructure on AWS EC2, implementing auto-scaling, performance optimization, operating system hardening, and proactive resource monitoring that improved application availability by 35% while supporting secure, scalable production environments for enterprise workloads.
- Collaborated within Scrum teams to deliver containerized applications using OpenShift and Helm, and streamlining application lifecycle management that accelerated deployment efficiency by 40% while ensuring consistent environment configuration across development and production.
- Employed ArgoCD for GitOps-driven continuous deployment, automating application synchronization, version-controlled infrastructure updates, and release validation processes that reduced deployment inconsistencies by 45% while improving software delivery reliability across multiple Kubernetes environments.
- Organized AWS IAM access controls together with AWS KMS encryption services, enforcing least-privilege permissions, secure credential management, and encrypted resource protection, which improved cloud security compliance by 38% while safeguarding sensitive enterprise data and critical workloads.
- Supported organizational compliance initiatives aligned with ISO 27001, implementing security controls, documentation standards, risk mitigation practices, and policy enforcement that increased regulatory compliance readiness by 32% while maintaining secure operational processes across cloud infrastructure.
- Enriched Container Security by implementing image vulnerability assessments, runtime protection, registry scanning, admission policies, and continuous security monitoring that reduced container-related security risks by 41% while improving the overall resilience of Kubernetes-based production platforms.

Cognitive Healthcare Solutions, India Jun 2021 – Feb 2022
Cloud Engineer

- Applied AWS S3 storage solutions for cloud infrastructure, implementing secure object lifecycle policies and high-availability data management practices that reduced storage costs by 32% while improving application reliability, data durability, and enterprise compliance across production workloads.
- Generated within Agile delivery teams to design and deploy cloud infrastructure enhancements through sprint planning and iterative release cycles, accelerating feature delivery by 30% while maintaining high-quality deployments and consistent operational performance across multiple environments.
- Executed FinOps best practices by analyzing cloud resource utilization, optimizing compute and storage consumption, right-sizing infrastructure, and creating cloud cost visibility reports that decreased overall operational expenses by 28% while maximizing infrastructure efficiency and resource utilization.
- Considered a Service Mesh architecture to improve secure service-to-service communication, traffic routing, and application resilience across containerized environments, increasing microservices availability by 35% while enhancing scalability and operational consistency for distributed cloud applications.
- Configured Prometheus and Grafana to establish comprehensive infrastructure and application observability through real-time metrics collection, performance dashboards, and proactive incident detection, improving system visibility by 40% while minimizing service disruptions and accelerating operational response.
- Maintained cloud security and database reliability by integrating Security Hub with PostgreSQL environments to monitor security findings, validate compliance controls, and maintain data integrity, reducing security vulnerabilities by 38% while ensuring stable, secure, and highly available database operations.

CERTIFICATIONS

Microsoft Certified: DevOps Engineer Expert | AWS Certified: Cloud Practitioner

PROJECTS

Energy - Smart Grid / Renewable Monitoring Platform

- Utilized a cloud-based renewable energy monitoring platform simulating IoT sensor data from solar panels and wind turbines, utilizing AWS IoT Core, Lambda, and EC2 (t2.micro) to process real-time energy readings and enable continuous monitoring of smart grid performance.
- Provisioned AWS infrastructure using Terraform, including VPC, S3 Data Lake, DynamoDB time-series storage, and IAM roles, implementing secure data ingestion, scalable storage, and controlled access management for IoT-generated energy data.

Oil & Gas - Pipeline/Well Monitoring & Predictive Maintenance

- Boosted a cloud-based oil and gas well monitoring solution by simulating SCADA sensor data (pressure, temperature, and flow rate) through AWS EC2 instances, storing raw telemetry logs in Amazon S3, and managing processed operational data using RDS/DynamoDB for real-time asset visibility.
- Programmed infrastructure deployment using Terraform modules with multi-AZ VPC, EC2 fleets, and remote state management (S3 + DynamoDB locking) while implementing AWS Lambda-based anomaly detection and SNS alerts to identify equipment issues and support predictive maintenance workflows.