
SOWMYA BENDAPUDI

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PROFESSIONAL SUMMARY

Cloud Engineering professional with 5+ years of hands-on experience architecting, building and optimising large-scale cloud environments across Azure and AWS. Specialised in designing secure, compliant, and highly available cloud infrastructure aligned to organisational strategy. Proven ability to lead cloud transformation, define cloud standards, deliver Trust-wide platforms, and mentor technical teams. Strong background in DevOps, automation, CI/CD, Kubernetes, Terraform, cloud security, and enterprise-grade governance frameworks. Adept at partnering with architects, technical leaders, and clinical/business stakeholders to deliver modern, resilient cloud solutions that improve service delivery across healthcare environments.

WORK HISTORY

Mid Senior DevOps Engineer, 02/2025 - current

Citibank

- Lead the design and optimisation of cloud-hosted CI/CD architecture across Azure, AWS and on-prem systems, improving release frequency by 40% and enhancing platform stability.
- Partner closely with enterprise architects to align pipeline, infrastructure and cloud deployment models with organisation-wide architectural strategy.
- Architect and implement GitOps workflows using ArgoCD, enabling consistent, traceable deployments across multiple regulated environments.
- Apply software engineering best practices to build scalable, secure cloud environments, including automated landing zones, policy-driven governance, and RBAC-based access models.
- Design blue-green and canary deployment frameworks for cloud-native clinical-grade services, reducing release incidents by 30% and improving operational resilience.
- Integrate cloud security tooling such as SonarQube, Snyk and Vault into delivery workflows, ensuring early detection of vulnerabilities and compliance with strict audit requirements.
- Deliver technical guidance and coaching to engineering teams on cloud patterns, Kubernetes, IaC, SDLC pipelines and operational best practices.
- Maintain observability platforms (Prometheus/Grafana) to provide architecture-level visibility on system-wide deployments and incident trends.

Mid Senior Cloud Engineer, 08/2022 - 01/2023

Citibank

- Migrated Trust-scale CI/CD systems from Jenkins to cloud-native platforms such as GitLab CI and GitHub Actions, improving scalability, auditability and platform governance.
- Engineered secure serverless architectures for Azure Functions and AWS Lambda, including automated deployment patterns and operational monitoring.
- Built centralised cloud logging and monitoring foundations that improved visibility into mission-critical systems and reduced investigation times.
- Designed and implemented secrets-management frameworks using Azure Key Vault and Vault, strengthening compliance with enterprise security policies.

Software engineer, 10/2019 - 08/2022

HCL Technologies

- Developed automation tools in Python that simplified cloud environment operations, improving support efficiency for platform teams managing Kubernetes and Azure workloads.
- Built reusable Helm charts and Terraform modules to standardise deployment architecture across multiple cloud projects, reducing configuration drift.
- Automated provisioning of secure Azure VNets and AWS VPCs, embedding governance controls and reducing manual configuration errors.
- Assisted in designing RBAC frameworks that aligned with strict access control policies across cloud and on-prem infrastructure.
- Integrated Artifactory pipelines for secure, compliant distribution of container images across enterprise teams.

SKILLS

- **Cloud Architecture:** Azure (AKS, Functions, VNet design, IAM), AWS (EKS, Lambda), enterprise-scale cloud patterns, cloud adoption frameworks
- **Cloud Governance & Compliance:** DSPT, Cyber Essentials, identity & access design, vulnerability management, security baselines
- **Infrastructure Engineering:** Terraform, ARM templates, automated cloud landing zones, zero-trust principles
- **DevOps & Automation:** CI/CD (Azure DevOps, GitLab CI, Jenkins), GitOps, ArgoCD, Python/Bash automation
- **Containers & Orchestration:** Kubernetes (AKS/EKS), Helm, container security & resilience patterns
- **Monitoring & Operations:** Prometheus, Grafana, CloudWatch, Azure Monitor, centralised logging
- **Leadership & Training:** Cloud SME, stakeholder engagement, training delivery, mentoring engineers, design authority support

EDUCATION

Master of Science: Data Science, 01/2023 - 01/2025
Teesside University - Middlesbrough

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- Microsoft Certified: Azure Administrator Associate (*AZ-104 – targeted*)
- HashiCorp Certified: Terraform Associate