HARSHAVARDHAN BODDETI

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PROFESSIONAL SUMMARY

DevOps Engineer with over 4 years of experience building scalable, secure, and automated infrastructure on AWS. Skilled in Infrastructure as Code, container orchestration, and GitOps-driven CI/CD, I deliver reliable, compliant solutions for high-availability environments, particularly in regulated industries like healthcare.

- Architected Infrastructure as Code (IaC) with Terraform and CloudFormation, enabling modular, reusable deployments on AWS.

- Managed Kubernetes clusters (EKS) and service meshes like Istio, using Helm for secure, automated CI/CD delivery and workload orchestration.

- Built robust CI/CD pipelines with Jenkins and GitHub Actions, integrating SonarQube and Nexus for audit-compliant release automation.

- Developed Docker-based containerized solutions, integrated with ECR registries, supporting seamless multi-environment deployments.

- Implemented observability pipelines with Prometheus, Grafana, ELK, and Splunk, ensuring real-time telemetry and SLO-driven alerting.

- Automated cost optimization, data lifecycle, and security remediation using Python, Boto3, and Bash scripting for efficient, compliant systems.

- Led AWS cloud migrations, enforced IAM policies with AWS IAM and CyberArk, and embedded DevSecOps guardrails via policy-as-code.

- Collaborated on GitOps workflows with Ansible and ArgoCD, enabling progressive deployments and automated drift detection using Checkov.

- Supported full-stack applications (Node.js, Python, Java) with scalable, secure AWS infrastructure, fostering operational efficiency and developer productivity.

CERTIFICATIONS

- AWS Certified Solutions Architect Associate

- AWS Certified Cloud Practitioner

- Data Engineering on Google Cloud Platform

- The Ultimate MySQL Bootcamp

- Node.js – The Complete Guide

- Angular – The Complete Guide

TECHNICAL SKILLS

Programming Languages: Python, Bash, SQL, YAML, HCL, Go, Shell
Cloud Platforms: AWS (S3, EC2, IAM, Glue, EMR, Redshift, Athena, Lambda, Route53, RDS, EKS, ECS, VPC, CloudFront)
Infrastructure as Code: Terraform, Terragrunt, Ansible, CloudFormation, CDK, YAML
CI/CD & DevOps Tools: Jenkins, GitHub Actions, GitLab CI, Harness, ArgoCD, Rundeck, SonarQube, Nexus, Vault, CyberArk
Containerization & Orchestration: Docker, Kubernetes (EKS, Helm, OpenShift)
Monitoring/Logging: CloudWatch, Prometheus, Grafana, Splunk, Fluent Bit, ELK Stack
Security/Networking: IAM, OIDC, IRSA, WAF, Vault, TLS, Route53, API Gateway, Guardrails, SCP, LDAP, Bastion, VPC Peering
Version Control: Git, GitHub, GitLab, SVN
Visualization Tools: Tableau, Power BI, Microsoft Excel
Development Tools: VS Code, Jupyter Notebooks, Postman

PROFESSIONAL EXPERIENCE

S3 Tech Systems, USA   *Senior DevOps Engineer, Jan 2024 – Feb 2025*

- Architected reusable Terraform and CDK modules for provisioning scalable AWS infrastructure, including EKS, S3, RDS, and CloudFront, with centralized state management using Terragrunt.

- Built GitOps-driven CI/CD pipelines with GitHub Actions and ArgoCD, incorporating Sentinel/OPA policy gates and automated drift detection with Checkov and TFLint.

- Configured secure Kubernetes deployments on EKS using Helm and IRSA, integrating with Prometheus and Grafana for observability and real-time telemetry.

- Developed Python-based automation scripts with Boto3 for security remediation, compliance reporting, and backup automation across cloud-hosted databases.

- Provisioned high availability infrastructure in AWS using Route53, Load Balancer, Auto Scaling Groups, NAT Gateway, VPC and configured AWS CLI for automated deployments.

- Designed cloud security and governance framework using AWS Organizations, SCPs, and IAM policies, supporting SOC2 and HIPAA initiatives.

- Implemented CloudWatch custom metrics, dashboards, and alerts, enabling proactive scaling actions and real-time incident diagnostics.

- Led Kubernetes cluster migration, rearchitecting services, managing Helm charts, and integrating ingress controllers, pod autoscalers, and resource quotas.

- Developed automated CI/CD pipelines with Jenkins, Rundeck, Nexus, and Ansible for containerized application deployments in Docker and Kubernetes.

- Enabled SSO user access to bastion hosts in AWS using LDAP, and managed jump server access for internal deployments.

- Created CloudFormation templates and Terraform modules for consistent provisioning of microservice environments with monitoring and logging integrations.

- Built cost optimization dashboards and conducted reviews with FinOps to track and reduce non-utilized cloud spend.

TATA Consultancy Services, India   *DevOps Engineer, Aug 2021 – Jul 2023*

- Contributed to DaVita Nautilus, a cloud-native healthcare platform for U.S. dialysis centers, implementing infrastructure automation using Terraform and CloudFormation to reduce provisioning time.

- Built and managed CI/CD pipelines using Jenkins and GitHub Actions with integrated testing and deployment workflows that reduced downtime and enabled safer releases.

- Managed containerized deployments with Docker, Amazon ECS, and Kubernetes for microservices requiring high availability.

- Ensured HIPAA compliance through automated IAM role provisioning, secret management with Vault and AWS Secrets Manager.

- Enhanced monitoring using AWS CloudWatch, Prometheus, and Grafana dashboards, improving incident response times.

- Automated serverless ETL data pipelines using AWS Glue to support real-time analytics and operational intelligence.

- Led Terraform workshops, trained junior engineers, and collaborated in Agile environments using JIRA and Confluence.

- Integrated SonarQube in build pipelines to enforce code quality and security checks across development teams.

- Conducted vulnerability scanning and patching automation across EC2 and container images.

- Built Helm charts and defined Kubernetes manifests for application deployment lifecycle.

- Improved deployment consistency across dev, staging, and production through parameterized IaC and GitOps workflows.

Cognizant Technology Consulting, India   *Data Analyst Intern, Aug 2020 – Jul 2021*

- Automated ETL workflows using Python for structured/unstructured data from S3 and RDS, integrating with Lambda for scheduled processing.

- Conducted EDA and statistical modeling using Pandas, Scikit-learn, and Matplotlib to support business insights.

- Designed Tableau and AWS QuickSight dashboards tracking KPIs and operational metrics across healthcare verticals.

- Implemented CI pipelines using GitHub Actions with version control for analytics scripts and report delivery.

- Participated in ingestion architecture design reviews with DevOps to support fault-tolerant data pipelines.

- Created API integrations using Python for dynamic dashboard refresh and embedded analytics workflows.

- Developed automated anomaly detection scripts for data quality checks using statistical rules and thresholds.

- Provided ad-hoc insights on customer behavior trends for internal stakeholders via SQL queries and visualizations.

- Supported data governance by tagging metadata and managing lifecycle policies in AWS.

- Collaborated across teams to align analytics with business goals in a fast-paced Agile environment.

EDUCATION

University of North Texas, Denton, TX   *Aug 2023 – May 2025*
Master of Science in Information Systems and Technology

- Relevant Coursework: Cloud Computing Architecture, DevOps & Agile Methodologies, Advanced Database Systems, Data Engineering, Machine Learning for Information Systems, System Analysis & Design

- Research Project: Scalable Data Processing with Apache Spark on AWS EMR for health analytics use cases.

- Hands-on Work: Deployed cloud-native apps on AWS using Terraform, Docker, and services like AWS Lambda and API Gateway as part of academic labs and projects.

Raghu Engineering College, Visakhapatnam, India   *Aug 2017 – May 2021*
Bachelor of Technology in Computer Science and Engineering

- Core Subjects: Data Structures, Algorithms, DBMS, Operating Systems, Web Technologies, Software Engineering, Object-Oriented Programming

- Capstone: Built a database-driven application with Python and MySQL, demonstrating full SDLC lifecycle implementation.