

# Mahesh Reddy Amireddy

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## SUMMARY:

DevOps, Cloud & SRE Engineer with 8+ years building scalable multi-cloud platforms (AWS/Azure/GCP). Expert in Kubernetes (EKS/AKS), Terraform, Helm, CI/CD (Jenkins/GitLab), and SRE practices (SLIs/SLOs). Drive reliability and efficiency via observability, automation, and production-grade tooling. Proven Python/Shell automation, cross-team collaboration, and junior engineer mentorship.

## PROFESSIONAL EXPERIENCE:

### DevOps Engineer

#### Technumen Inc for USAA

Plano, Tx

Oct 2024 - Present

- Architected and deployed AWS EKS clusters with managed nodes and Fargate profiles using Terraform, enabling scalable, secure, and highly available Kubernetes infrastructure.
- Deployed Java Spring Boot microservices to EKS using Helm charts and Kubernetes manifests, resolving complex Docker image and dependency issues to stabilize and speed up production releases.
- Built GitLab CI/CD pipelines integrated with Terraform modules and JFrog Artifactory to eliminate manual steps, improving engineering efficiency and reducing deployment times by about 30%.
- Supported SOC 2 and PCI-like security initiatives by enforcing IaC guardrails, container image scanning, and OS hardening across AWS environments.
- Established SRE-driven observability for cloud and application workloads using Datadog, ELK, and CloudWatch, owning Kubernetes/AWS on-call and reducing costs with Terraform-driven budget alerts.

### DevOps Engineer

Dallas, Tx

#### Technumen Inc for AT&T

Dec 2019 - Oct 2024

- Designed and automated multi-cloud infrastructure on AWS and Azure using Terraform modules and CloudFormation, standardizing deployments and accelerated scalability and provisioning.
- Led migration of on-prem applications to Azure AKS, designing VNet, load balancing, Key Vault, and App Gateway patterns that increased scalability and reduced infrastructure costs by 25% through IaC.
- Strengthened application security by integrating Veracode into CI/CD and using automated patching and container image scanning to systematically reduce vulnerabilities.
- Partnered with application teams during on-call incidents to troubleshoot Kubernetes and AWS issues, restore services quickly, refine runbooks, and drive better problem-solving and collaboration.
- Built SRE-style observability for AKS by defining and tracking SLIs/SLOs with Prometheus, Grafana, and Splunk, and standardizing DR runbooks and Terraform-based workflows, achieving 99.95% uptime, 35% lower MTTR, and faster DR incident resolution.

### Software Developer

Houston, Tx

#### StackIT Professionals Inc

Jun 2019 – Dec 2019

- Created scalable AWS infrastructure using Terraform, EC2, VPC, and IAM, and containerized workloads with Docker and Kubernetes, reducing provisioning time from hours to minutes.
- Optimized hybrid cloud networking with VPC, ELB, and SDN (NSX, ACI), hardening multi-tier security and improving reliability of traffic flows between on-prem and cloud environments.

### DevOps/Linux System Engineer

Houston, Tx

#### Bravo Technical Resources Inc for Exxon Mobil

Apr 2019 - Jun 2019

- Managed configuration and patch lifecycles for more than 200 Linux and Windows servers with Ansible, cutting manual effort by 40% and maintaining compliance across diverse platforms.
- Performed firmware upgrades, OS hardening, and root cause analysis on production systems monitored by Nagios and Zabbix, reinforcing security and sustaining 99.99% uptime.

### DevOps Engineer

Houston, Tx

#### Blue Space Technologies Inc

Jan 2019 - Apr 2019

- Integrated Jenkins with Bitbucket, SonarQube, Veracode, and Nexus to orchestrate builds, security checks, and artifact publishing, raising deployment reliability and traceability by 30%.
- Provisioned AWS EC2, S3, and VPC resources using automation scripts to support on-prem to cloud migration, accelerating environment spin-up and reducing manual provisioning tasks.

### **Unix System Engineer**

**Plano, TX**

#### **Digital iTechnology for Abbott Labs**

**Apr 2018 - Jan 2019**

- Built end-to-end CI/CD pipelines for iOS apps with Jenkins and Mac build agents, automating builds, tests (NUnit), and deployments to iPad/iPod devices.
- Set up Jira for Agile workflows and integrated SonarQube and Nexus with Jenkins to enforce code quality and artifact management, reducing manual errors by 25%.

### **DevOps Engineer**

**Reston, Virginia**

#### **Mindlance Inc for SAP SuccessFactor**

**Feb 2018 - Apr 2018**

- Streamlined parts of the Oracle DB to SAP HANA migration using Jenkins, Puppet, Shell scripts, and Rundeck, increasing deployment reliability by 40%.
- Built Puppet modules and Jenkins jobs to deliver Java applications across RHEL and SUSE, enabling one-click CI/CD and reducing manual effort by 60%.

### **Unix System Engineer**

**Round Rock, TX**

#### **Digital iTechnology**

**Aug 2017 - Feb 2018**

- Managed RHEL and SUSE servers and used Puppet for patching and kernel upgrades, enhancing stability and security of production environments.
- Used Nagios and Zabbix to track system health and performance, proactively addressing bottlenecks to boost server uptime and responsiveness.

### **TECHNICAL SKILLS:**

**Operating Systems** Linux (RHEL and SUSE) and Windows (2019/2022)

**Languages** Shell, Groovy and Python

**DevOps Tools** GIT, Bitbucket, GitLab, Jenkins, SonarQube, Veracode, Ansible, Puppet, Docker, Terraform, Kubernetes, Helm, Splunk, Datadog, ELK, Prometheus, Grafana, SolarWinds, Nagios and Zabbix.

**Cloud Technologies** AWS (IAM, KMS, EC2, EKS, ECR, EBS, EFS, Fargate, CloudWatch, Lambda, RDS, VPC, ELB, Secrets Manager), Azure (AKS, ACR, Azure AD, Key Vault, VNet, ALB, Private Link, Log Analytics Workspace, Azure DevOps, Azure Disk, Azure Policy) and GCP (in progress -labs/training).

### **EDUCATION:**

#### **Wilmington University, New Castle, DE**

**Jan 2016 – May 2017**

Master of Science in Information Systems Technologies/Web-Design and Internet

GPA: 3.86

Relevant Coursework: Database/Web Design Integration, Project & Change Management, Markup languages Advanced Authoring, IT Policy & Strategy and Data Communications & Networking

#### **Jawaharlal Nehru Technological University, Hyderabad, India**

**Jul 2011 – May 2015**

Bachelor of Engineering in Information Technology

Relevant Coursework: Object Oriented Programming, Design & Analysis of Algorithms, Operating Systems, Computer Networks

### **CERTIFICATIONS:**

- [Azure Administrator Associate](#)
- [AWS Certified Solutions Architect - Associate](#)