SEETHA RAMAIAH BANDARUPALLI
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LinkedIn

PROFESIONAL SUMMARY

- Cloud DevOps Engineer with 6+ years of experience in designing and managing secure, scalable, and cost-effective infrastructure across AWS and Azure. Specialized in Kubernetes-based deployments, including GPU-enabled workloads for AI/ML and HPC using Slurm and GPU Operator.
- Proficient in Infrastructure as Code (Terraform, AWS CloudFormation, ARM templates, Chef) and CI/CD automation using Jenkins, GitHub Actions, and ArgoCD. Strong Python scripting skills for automation, monitoring, and pipeline integration.
- Achieved 99.8% uptime by optimizing cloud services across AWS and Azure. Currently exploring Generative AI to embed LLM-powered automation into DevOps workflows.

SKILLS

Cloud Environments: AWS, Microsoft Azure
Infrastructure as Code: Terraform, AWS Cloud Formation, ARM
Configuration Tools: Ansible, Chef
CI/CD & Version Control: Git, GitHub Actions, Jenkins, Azure Pipelines, ArgoCD
Containerization & Orchestration: Docker, Kubernetes, Helm
Monitoring Tools: Prometheus, Grafana, AWS CloudWatch, Splunk, ELK Stack
Security & Identity: HashiCorp Vault, AWS KMS, IAM
Automation & Scripting: Python, Perl, Shell, Groovy, Bash, Go
Repository Manager: Artifactory, Nexus
Operating System: RHEL, Ubuntu, Centos, Windows

PROFESSIONAL EXPERIENCE

Walmart — **Bentonville, AR**
Azure DevOps Engineer — **Oct 2022 – Present**

- Designed, deployed, and managed scalable Azure infrastructure—Virtual Networks, App Services, Application Gateway, DNS, Traffic Manager, Backup, and Automation—with a focus on security and high availability.
- Automated infrastructure provisioning using Terraform, Ansible, and Python/Bash/Go, reducing manual workload and improving deployment speed.
- Developed and enforced Azure IAM and RBAC policies to ensure secure access control and compliance.
- Built CI/CD pipelines using Jenkins, GitHub Actions, and ArgoCD, streamlining application and AI/ML model deployments across environments.
- Integrated Azure Databricks with secure storage endpoints to enhance data accessibility and security for ML workloads.
- Provisioned GPU-accelerated AKS clusters with Terraform and Slurm integration, reducing AI/ML training time by 40%.
- Collaborated cross-functionally with AI/ML teams to support GPU workloads on Kubernetes, optimizing resource utilization.
- Architected and deployed microservices on Kubernetes (AKS/k3d/kind), using Helm, ConfigMaps, Secrets, and Operators for modular, reusable deployments.
- Secured cluster operations using Kubernetes Secrets and HashiCorp Vault, ensuring data protection and compliance.
- Automated containerized application deployments with Kubernetes, enabling high availability and cost-efficient scaling.
- Enhanced development velocity by 30% through independent microservice release pipelines.
- Built scalable GraphQL and REST APIs in Go and Python to support high-traffic microservice applications.
- Developed robust SQL-based persistence layers with a focus on performance, schema design, and transaction integrity.
- Partnered with engineering and DevOps teams to align cloud infrastructure with business goals, improving security posture and reducing operational costs.
- Implemented CI/CD for HPC applications, boosting deployment efficiency and system integration.

Vonage — **Atlanta, GA**
AWS DevOps Engineer — **June 2020 – Oct 2022**

- Led end-to-end migration from on-prem to AWS using SMS and DMS, improving scalability and minimizing downtime.
- Designed and deployed highly available AWS infrastructure (EC2, S3, Lambda, VPC, RDS) using Terraform and CloudFormation, achieving 99.8% uptime.

- Standardized IaC with reusable Terraform modules and CloudFormation templates across 10+ AWS accounts, reducing config drift.
- Partnered with FinOps to implement S3 lifecycle policies and reserved instances, cutting monthly cloud costs by 20%.
- Built and managed production-grade Kubernetes clusters on AWS, enabling self-healing, autoscaling, and blue-green deployments via Helm.
- Re-architected monolithic systems into microservices, enabling independent scaling, faster development, and lower failure blast radius.
- Provisioned HPC environments using Kubernetes and Slurm for compute-intensive parallel workloads.
- Automated Kubernetes deployments with Helm, supporting rollback and version-controlled releases.
- Implemented CI/CD pipelines using Jenkins, Docker, Maven, SonarQube, and GitHub, automating testing, build, and deployment workflows.
- Integrated DevSecOps practices by scanning container images, enforcing IAM least privilege, and securing pipelines.
- Automated infrastructure and configuration management using Ansible and Python, reducing setup time and manual errors.
- Enabled serverless architectures with AWS Lambda and API Gateway, lowering latency and infrastructure overhead.
- Monitored systems using Prometheus and Grafana, implementing SLO-based alerting and dashboards for real-time insights.
- Led on-call incident management, triaging and resolving outages with centralized logging, tracing, and post-incident reviews.
- Defined SLAs/SLIs with SRE and app teams to drive service reliability and continuous improvement.
- Developed secure, scalable APIs with OAuth, versioning, and rate limiting for robust integration.
- Deployed and optimized Redshift and DynamoDB for analytics and fast data retrieval.
- Implemented S3 lifecycle and storage optimizations, reducing log retention costs by 25%.
- Documented CI/CD processes and trained 4+ junior engineers, reducing onboarding time and build errors by 30%.
- Contributed to BMaaS automation, enabling rapid provisioning of Kubernetes clusters with minimal manual intervention.

Keka HR **Hyderabad, INDIA**
AWS DevOps Engineer **Sept 2017 – Dec 2018**

- Automated infrastructure provisioning using Terraform and managed configuration with Chef, reducing provisioning time and human error.
- Deployed and managed Kubernetes clusters on AWS, ensuring scalability, high availability, and self-healing of microservices.
- Orchestrated containerized applications with Docker, enabling consistent and efficient deployment pipelines.
- Built and integrated CI/CD pipelines using Jenkins, Docker, and GitHub, improving delivery speed and build reliability.
- Wrote automation scripts in Python, Bash, and PowerShell for EC2 lifecycle tasks, S3 policy management, and log rotation.
- Monitored infrastructure using AWS CloudWatch and Splunk, creating real-time dashboards and proactive alerting systems.
- Deployed Prometheus and Grafana for system and application-level monitoring, including custom alerting on SLIs.
- Configured Security Groups, Network ACLs, and Route Tables to enforce secure networking in AWS environments.
- Standardized Infrastructure as Code using modular Terraform templates and reusable Chef cookbooks for consistent deployments.
- Integrated SNS and SQS with monitoring tools to automate incident alerts and recovery workflows.
- Designed Splunk dashboards for application logs, improving issue triage and reducing mean time to recovery (MTTR).
- Implemented log archival and backup automation using AWS Data Lifecycle Manager and scripting solutions.
- Enhanced DevSecOps practices by integrating container scanning and patching processes into CI/CD pipelines.
- Managed Kubernetes Secrets and environment configurations to protect sensitive credentials and ensure secure deployment.
- Collaborated with cross-functional teams to define SLAs/SLIs, contributing to the reliability, scalability, and stability of services.
- Conducted root cause analysis (RCA) sessions post-incident, improving reliability patterns and service stability.
- Reduced manual configuration efforts by 60% using Chef automation and Terraform-based provisioning.

EDUCATION

Southeast Missouri State University **Cape Girardeau, MO**
M.S Applied Computer Science Jan 2019 – May 2020

Vignan's Lara Institute of Technology & Science **Guntur, INDIA**
B. Tech Computer Science & Engineering Mar 2014 – Apr 2018