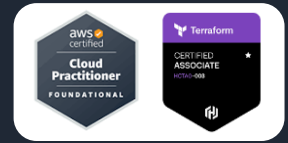


Sai Karthik N



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Location: Hyderabad, Telangana

Dynamic and results-driven DevOps Engineer specializing in cloud infrastructure and platform engineering, seeking to leverage expertise in CI/CD automation and cloud solutions within a product-based organization to drive scalability, efficiency, and innovation.

Profile Summary

- Certified DevOps Engineer with 3+ years of experience in **cloud infrastructure and platform engineering**, adept at designing, deploying, and managing **scalable, secure, and resilient environments** across hybrid and multi-cloud ecosystems.
- Proficient in building **end-to-end CI/CD automation pipelines** with Jenkins, GitHub Actions, and GitLab CI to accelerate software delivery, ensure compliance, and enable zero/minimal downtime during critical migrations, including **Perforce-to-Git repository transitions, cross-region AWS migrations, and on-prem to cloud modernization**.
- Expert in **Infrastructure as Code (Terraform, AWS CDK, CloudFormation)** for repeatable, version-controlled provisioning, and in **containerization and orchestration** (Docker, Kubernetes, EKS, ECS, Helm, Kustomize). Experienced in implementing **service mesh solutions (Istio)** to deliver secure, observable, and efficient microservices communication.
- Strong background in **DevSecOps practices** encompassing IAM, encryption, CloudTrail, CloudWatch, and **cloud cost optimization**, with proven ability to enforce governance, observability, and compliance in enterprise-scale deployments.
- Hands-on expertise in **automation scripting (Python, Bash)** to eliminate manual tasks, minimize errors, and accelerate release cycles. Known for driving **platform reliability, automation-first culture, and continuous improvement initiatives** within agile teams.

Competencies

- | | | | |
|---|--|---------------------------------------|--|
| • Cloud Infrastructure & Platform Engineering | • Containerization & Orchestration | • Automation Scripting | • Platform Reliability & High Availability |
| • Continuous Integration & Delivery | • Cloud Cost Optimization & Governance | • Repository Management | • Agile & Continuous Improvement |
| • Infrastructure as Code | • DevSecOps & Cloud Security | • Monitoring, Logging & Observability | |

Technical Skills

- Cloud & IaC:** AWS (EC2, S3, IAM, Lambda, VPC, Route53, RDS, EFS, FSx), AWS CDK, CloudFormation, Terraform
- Programming & Scripting:** Java, Python, Shell (Bash), PowerShell
- DevOps & Automation:** CI/CD pipelines (Jenkins, GitHub Actions), Docker, Kubernetes, Ansible
- Security & Monitoring:** IAM policies, CloudWatch, CloudTrail, Logging & Alerts
- OS & Tools:** Linux/Unix, CLI tools, Git, JFrog Artifactory, Atlassian Suite (Jira, Confluence, Bamboo)
- Networking:** VPC design, subnets, security groups, load balancers, secure application

Certifications

- AWS Certified Cloud Practitioner
- Monitoring Kubernetes Cluster using Prometheus and Grafana
- Terraform Associate 003

Work Experience

DevOps Engineer–II | Cloud Collab Technologies | Bangalore, Karnataka | Dec 2024 – Present

Key Responsibilities:

- Designing, building, and maintaining CI/CD pipelines using AWS CodePipeline, CodeBuild, CodeDeploy, Jenkins, and GitHub Actions to enable faster, reliable, and automated software releases.
- Leading the migration of source code repositories from Perforce to Git, including repository restructuring, branch synchronization, and history conversion, supported by custom Bash/Python automation scripts; optimizing Jenkins pipelines with Git-based integrations and webhooks for improved performance.

- Deploying and managing containerized applications using Kubernetes (EKS/ECS/Docker Swarm), creating multi-environment clusters (DEV/TEST/PROD) to enhance scalability, reliability, and resource efficiency.
- Configuring monitoring and observability using AWS CloudWatch, CloudTrail, custom metrics, alarms, and third-party monitoring tools to proactively detect and resolve performance bottlenecks, access issues, and infrastructure failures.
- Troubleshooting and resolving Linux-based EC2 instance issues using CLI tools and AWS Systems Manager to improve uptime and reduce MTTR.
- Designing and deploying scalable AWS solutions leveraging EC2, S3, EBS, ELB, and Auto Scaling Groups to support high-availability and cost-optimized workloads.
- Developing and executing post-deployment validation and automated smoke testing scripts in Bash and Python to ensure successful application rollouts.
- Collaborating with development, operations, and security teams to implement secure, scalable, and business-aligned AWS solutions while standardizing workflows and enhancing release efficiency.

Tech Stack: Python, Jenkins, Kubernetes, Terraform, Red Hat, Linux, GitHub, AWS Cloud, Docker, Podman, Grafana, SonarQube, Perforce

DevOps Engineer | Hamilton Capital Holding | London, UK | Sep 2022 – Mar 2024

Key Contribution:

- Designed, developed, and maintained CI/CD pipelines using Jenkins, Google Cloud Build, and JFrog Artifactory to automate application deployments and infrastructure changes. Implemented blue/green deployments and canary releases on ECS and Lambda, minimizing downtime during production releases.
- Migrated legacy infrastructure to AWS, improving system resilience and reducing operational costs by 25%. Collaborated with cross-functional teams to execute multi-phase cloud transformation projects.
- Provisioned and managed AWS resources (EC2, ECS, Lambda, S3, RDS, Route53, FSx, EFS) across dev, staging, and production environments using Infrastructure as Code (IaC) with AWS CDK, CloudFormation, and Terraform. Standardized infrastructure practices and built reusable templates for internal knowledge sharing.
- Built and maintained containerized applications using Docker and Podman; created custom images, deployed to RedHat image repository, and troubleshooted containerized workloads on AWS Linux instances.
- Automated deployments and configurations using Ansible playbooks and shell scripts, ensuring consistent, repeatable environments.
- Supported Atlassian tools (JIRA, Confluence, Bamboo) for project tracking, knowledge sharing, and build automation.
- Managed source control and release activities (branching, tagging, versioning) with GitHub and SVN.
- Successfully delivered multiple concurrent projects under tight deadlines, ensuring high quality and adherence to DevOps best practices.

Tech Stack: Python, Jenkins, Kubernetes, Terraform, Red Hat, Linux, Agile, Orchestration, SQL server, GitHub, AWS Cloud, Azure Cloud, GCP Cloud, Ansible, Docker, Podman, Grafana, SonarQube

DevOps Engineer | Pappaya Limited | London, UK | Jan 2021 – Nov 2021

Key Contribution:

- Automated infrastructure provisioning using Terraform and Google Cloud Deployment Manager to create VPCs, subnets, EC2 instances, ELBs, autoscaling groups, and other AWS services (CloudFront, CloudWatch, RDS, S3, Route53, SNS, SQS, CloudTrail, Elastic Beanstalk, ElastiCache).
- Designed and deployed AWS solutions integrating EC2, S3, EBS, and ELB to support scalable, fault-tolerant architectures. Applied tagging standards for cost allocation, governance, and ownership tracking.
- Built and managed CI/CD pipelines in Jenkins integrated with Artifactory and Terraform for automated deployments across DEV, TEST, and PROD environments.
- Deployed and managed containers and orchestration platforms (Docker, Kubernetes, OpenShift, AWS ECS, Docker Swarm). Created a private Kubernetes cluster to support multi-environment workflows.
- Defined branching and version control strategies in Git, ensuring streamlined collaboration across teams.
- Collaborated with developers and project teams using JIRA for ticket tracking and workflow management.
- Delivered multiple projects on time, ensuring high-quality automation, scalability, and compliance with DevOps standards.

Tech Stack: Python, Jenkins, Kubernetes, Terraform, Red Hat, Agile, GitHub, AWS Cloud, Azure Cloud, GCP Cloud, Ansible, Docker, Podman, Grafana, Linux

Education

- **M.Sc. in Cloud Computing**
University of Leicester, Leicester, UK, 2022
- **B.Tech. in Computer Science & Engineering**
St. Mary's Engineering College, Hyderabad, Telangana, 2019