**VENKAT SAI NAYINI**

**Email:**[venkatsainayini1711@gmail.com](mailto:venkatsainayini1711@gmail.com)

**Phone:** +91 8008891109

**LinkedIn:**<https://www.linkedin.com/in/venkatsai-nayini-92489a164/> **GitHub:**<https://github.com/venkat1711>

### **Professional Summary**

Highly skilled DevOps Engineer and Solution Architect with over 3 years of experience in designing, implementing, and managing scalable, secure, and efficient cloud infrastructure solutions. Proficient in automation, continuous integration/continuous deployment (CI/CD), and infrastructure as code (IaC) using tools such as Jenkins, Docker, Kubernetes, Terraform, AWS, and Azure DevOps. Strong background in software development, system administration, and network engineering. Proven ability to streamline operations, improve deployment cycles, and enhance system performance.

### **Skills**

* **Cloud Platforms:** AWS, Azure, GCP
* **DevOps Tools:** Jenkins, Git, Docker, Kubernetes, Ansible, Terraform, Packer
* **Programming Languages:** Python, Bash, Shell scripting
* **Monitoring & Logging:** Prometheus, Grafana, ELK Stack, Splunk, Nagios
* **Version Control:** Git, GitHub, GitLab, Bitbucket
* **Database:** MySQL, PostgreSQL, MongoDB, Redis
* **Operating Systems:** Linux (Ubuntu, CentOS, Red Hat), Windows Server
* **Networking:** TCP/IP, DNS, Load Balancing, VPNs, Firewalls
* **Business Intelligence:** Power BI, Tableau

### **Professional Experience**

### **DevOps Engineer & Cloud Solution Architect**

### STA Solutions Pvt Ltd., HyderabadSeptember2023 *–* Present

Roles and Responsibilities:

* **Designed and Implemented Multi-Cloud Strategy:**
  + Developed a multi-cloud architecture leveraging AWS and Azure to ensure high availability and disaster recovery.
  + Utilized Terraform for infrastructure as code to manage cloud resources, enabling consistent and repeatable deployments.
  + Configured Azure Site Recovery and AWS Disaster Recovery for cross-cloud failover capabilities.
* **CI/CD Pipeline Development:**
  + Architected and implemented CI/CD pipelines using Jenkins and GitLab CI to automate build, test, and deployment processes.
  + Integrated SonarQube for static code analysis and security checks, improving code quality and reducing vulnerabilities.
  + Deployed applications to Kubernetes clusters using Helm, ensuring scalable and efficient resource management.
* **Automated Infrastructure Management:**
  + Refactored existing Terraform code.
  + Implemented Ansible playbooks for automated configuration management and system provisioning.
  + Used Packer to create immutable infrastructure, generating machine images for AWS AMIs and Azure VM images.
* **Monitoring and Logging Enhancements:**
  + Established centralized logging using the ELK stack (Elasticsearch, Logstash, and Kibana) to aggregate and visualize logs from multiple sources.
  + Deployed Prometheus and Grafana for real-time monitoring and alerting, reducing incident response times by 30%.
* **Key Projects:**
  + **E-commerce Platform Migration to AWS:**
    - Led the migration of a legacy e-commerce platform from on-premises data centers to AWS.
    - Designed an architecture utilizing EC2, S3, RDS, and CloudFront for scalability and cost-efficiency.
    - Achieved a 40% reduction in operational costs and a 50% improvement in application performance.
  + **Microservices Deployment on Kubernetes:**
    - Transitioned a monolithic application to a microservices architecture, deploying on Kubernetes.
    - Utilized Istio for service mesh to handle traffic management, security, and observability.
    - Enhanced deployment speed by 60% and increased system reliability with auto-scaling and self-healing capabilities.
* **Backup and Recovery:**
  + Implemented backup and disaster recovery solutions using AWS S3 and Glacier.
  + Developed automated backup scripts and tested recovery procedures regularly.

**DevOps Engineer**

Element Technologies, BangaloreAugust 2022 – August 2023

Roles and Responsibilities:

* **Infrastructure Automation:**
  + Automated infrastructure provisioning and management using Terraform and AWS CloudFormation.
  + Created and maintained CI/CD pipelines in Jenkins to streamline the software development lifecycle.
* **Containerization and Orchestration:**
  + Containerized applications using Docker, improving consistency and portability across development, testing, and production environments.
  + Managed Kubernetes clusters for container orchestration, achieving efficient resource utilization and application scalability.
* **Monitoring and Incident Response:**
  + Set up monitoring and alerting using Nagios and Prometheus, reducing downtime and improving system reliability.
  + Developed custom scripts in Python and Bash to automate routine tasks and incident response procedures.
* **Key Projects:**
  + **High-Availability Web Application:**
    - Designed and deployed a highly available web application architecture on AWS using Elastic Load Balancer, EC2 Auto Scaling, and RDS Multi-AZ.
    - Implemented CloudWatch for monitoring and automatic scaling, ensuring 99.99% uptime.
    - Created and managed DNS records on Amazon Route 53 and GoDaddy panel.
    - Setup and managed CDN on Amazon CloudFront to improve site performance.
    - Managed S3 buckets for database and log backups, and CDN image uploads.
    - Setup and managed databases on Amazon RDS. Monitored servers through Amazon CloudWatch and SNS.
  + **Serverless Application Development:**
    - Developed a serverless application using AWS Lambda, API Gateway, and DynamoDB.
    - Reduced infrastructure management overhead and achieved faster development cycles.
* **SAS to Azure Cloud Migration:**
  + - Worked on migrating SAS to Azure Cloud, setting up the Azure environment for SAS modules.
    - Collaborated with SAS experts and Data Architects for the migration of required SAS modules.
    - Created dashboards in Power BI.
    - Worked on Proof of Concept (PoC) for creating and replicating SAS dashboards into Power BI and Tableau.

**System Administrator**

Strateology IT Solutions *January 2017 – June 2018*

* **Server and Network Management:**
  + Managed Linux and Windows servers, ensuring optimal performance and security.
  + Configured and maintained network infrastructure, including firewalls, routers, and switches.

### **Education**

**Master of Science in Telecommunications**

*University of Cassino and Southern Lazio, Rome, Italy*

Graduated: February 2021

**Bachelor of Technology in Electronic and communications engineering**

Aurora’s Engineering college

### **Certifications**

* **AWS Certified Solutions Architect – Simplilearn**
* **Certified Kubernetes Administrator (CKA)**
* **Microsoft Certified: Azure Solutions Architect - Simplilearn**
* **HashiCorp Certified: Terraform Associate (10/2023)**