

# SIVARAMA KRISHNA AMBATI

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## Cloud | SRE | DevOps | Performance Engineering Expert | AI & Automation Enthusiast

**Versatile technology leader** with 18.7+ years of experience in software industry, with last **10** years focused on SRE, cloud infra engineering, and DevOps, delivering high-performance solutions primarily in **Telecom, Banking, Networking, and Automotive** sectors. Proven ability to drive automation, enhance operational efficiency, and architect resilient, secure cloud platforms. Skilled in optimizing **software deployment pipelines** and implementing proactive monitoring solutions to improve system reliability. Passionate about continuous innovation, with deep knowledge of **performance engineering, security best practices**, and AI-driven optimizations. A **strategic problem solver** with a track record of leading cross-functional teams, modernizing technology stacks, and ensuring seamless system integrations to support business growth.

### Projects & Achievements:

- **AWS Cloud Migration:** Successfully migrated on-prem applications to AWS, leading to a **35% reduction in operational costs** and improved scalability.
- **ELK Stack Implementation:** Developed a **centralized log monitoring system using ELK Stack**, enhancing real-time analytics and reducing incident response time by **50%**.
- **FinOps, AIOps and AppOps Optimization:** Led initiatives in FinOps,AIOps and AppOps practices, streamlining cloud resource allocation and application operations to reduce operational costs and improve deployment efficiency.
- **Performance Engineering:** Optimized performance testing strategies with LoadRunner and JMeter, ensuring **99.9% application uptime** and peak system reliability.

## KEY SKILLS

**DevOps & Cloud Computing:** AWS, Azure, Kubernetes, Docker, Terraform,Ansible.

**CI/CD & Automation:** Jenkins, BitBucket, JFrog, TFS, GitHub Actions, Automated CI/CD.

**Monitoring & Logging:** ELK Stack, Splunk, Grafana, AWS CloudWatch,AWS cloudtrail, datadog, newrelic.

**Performance Testing & Engineering:** LoadRunner, JMeter, AppDynamics, Dynatrace.

**OS & Scripting:** Linux, bash, Python.

**Networking & Telecom Protocols:** MQTT, IOT, Embedded Systems,Device engineering.

**Security & Compliance:** Cloud Security, ITIL, Kubernetes Security.

**AI & Machine Learning:** Generative AI, AI-based Automation & Analytics.

**Project Management & Agile Practices:** JIRA, ServiceNow, Agile, Scrum, stakeholder management, On-site Project Leadership.

## PROFESSIONAL EXPERIENCE

### Technical Manager – AWS Cloud | Tata Communications, Bangalore | July 2022 – June 2025

- Spearheaded **cloud migration** of legacy applications to **AWS**, optimizing cost, performance, and security while ensuring seamless transition by following AWS well architected framework.
- Designed and implemented AWS-based **deployment pipelines**, improving application release efficiency while **minimizing downtime** and operational risks.
- Architected and deployed an enterprise-grade **ELK Stack** Solution for enhanced log analytics and system monitoring, improving operational visibility, Site Reliability and troubleshooting efficiency.
- Led **cloud DevOps transformation**, automating infrastructure provisioning and deployments using **Terraform** and **Ansible**, ensuring scalability and consistency.
- Managed and optimized a **5-node Elasticsearch cluster**, implementing **ILM policies** to streamline data lifecycle management and optimize storage utilization.
- Customised **Grok, Json, Xml,ruby, csv** Parser developments for different log types to parse the application logs as per need basis. Leverage Davis AI feature in Dynatrace and anomaly detection using AI-ML in ELK.
- Accelerated **CI/CD pipeline efficiency**, implementing **Jenkins automation** to reduce deployment time by **40%**, enhancing release cycles and system reliability.
- Developed automated cloud provisioning scripts with Terraform, enabling rapid, error-free deployment and ensuring compliance with infrastructure security best practices with vulnerability free for EKS.
- Leveraging agile/waterfall delivery practices at scale to help organizations achieve CSAT/KPIS/EBIDTA business objectives through IT.
- Implemented **AWS CloudWatch , AWS CloudTrail** for real-time monitoring, proactive alerting, and system performance optimization, significantly reducing unplanned outages, **AWS integration** with Azure AD using **SSO** and **IAM** policies.
- Adept at transforming legacy infrastructures into scalable, **cloud-native ecosystems on Azure**, with hands-on expertise in **Azure Functions, Azure Service Fabric, Azure Event Hubs, and Azure Kubernetes Service (AKS)**.
- Engineered **AWS Lambda-based automation** for serverless operations, cutting infrastructure costs & improving resource efficiency.

- Enhanced network performance and customer experience **by 40%** by **deploying and customizing ELK Stack**, leveraging **Kibana dashboards** for real-time log analytics and telco network traffic monitoring.

#### Consultant – Cloud & DevOps | HCL Technologies | January 2020 – July 2022

- Designed and implemented cloud-based solutions on **AWS** and **IPC Cloud**, enhancing **scalability, resilience, and cost-efficiency**.
- Led **enterprise-wide DevOps transformations**, integrating **CI/CD pipelines** with **BitBucket** and **JFrog Artifactory**, ensuring **seamless, automated software delivery**.
- Optimized system reliability by implementing **real-time monitoring solutions** using **Grafana** and **AWS CloudWatch**, reducing **downtime by 30%**.
- Collaborated with cross-functional teams to enhance security, compliance, and governance within cloud environments, ensuring adherence to industry best practices.
- Developed & maintained critical **JBoss middleware applications**, optimizing performance, stability, & application lifecycle management
- Automated end-to-end testing** using **Python**, integrating with **CI/CD pipelines**, which **accelerated delivery cycles and reduced test execution time by 60%**.
- Enhanced deployment efficiency, reducing errors by **70%** and increasing deployment speed by implementing **Ansible-based** automation for environment provisioning and application deployment, eliminating inconsistencies from manual processes.

#### Senior System Analyst – Cloud & DevOps | UST Global | August 2017 – January 2020

- Led **DevOps strategies** for mission-critical financial applications, enhancing deployment **efficiency, automation, & system resilience**.
- Designed and implemented performance testing frameworks using **JMeter** and **LoadRunner**, ensuring optimized application performance under peak loads.
- Optimized **cloud infrastructure**, implementing cost-saving strategies that reduced operational expenses by **25%** while maintaining high availability.
- Enhanced fraud detection capabilities by **50%** through migration to **Elastic Cloud Stack**, enabling centralized log management, real-time analytics, and faster anomaly detection.

#### Test Lead – Performance Engineering & Cloud Monitoring | Wipro Technologies | November 2015 – July 2017

- Led performance engineering initiatives for **high-traffic telecom** and **banking** applications, optimizing latency, throughput, and system resilience.
- Designed and deployed the **ELK Stack for real-time monitoring**, log analytics, and proactive issue resolution, enhancing system observability and troubleshooting efficiency.
- Developed **automation scripts** for continuous performance testing, integrating with **CI/CD pipelines** to ensure seamless application performance under varying load conditions.

## PREVIOUS EXPERIENCE

#### Project Lead – Telecom & Device Testing | Tech Mahindra | February 2007 – May 2015

Led automation & protocol testing for telecom products, specializing in LTE, SIP/VoIP applications, and FOTA validation. Managed on-site client coordination, ensuring seamless telecom project execution while optimizing mobile device performance & user experience.

#### Senior Software Engineer – Embedded & Networking Systems | Flextronics Software Systems | September 2005 – August 2006

Executed embedded systems and compliance testing for semiconductor and networking products. Developed automated test scripts for hardware-software integration, ensuring seamless functionality and industry compliance.

## TECHNICAL SKILLS

- Cloud & DevOps:** AWS, Azure, OpenShift, Kubernetes, Docker, Terraform, Ansible.
- Monitoring & Logging:** ELK Stack, Splunk, AppDynamics, Dynatrace, Grafana, SLAs/SLOs/SLIs/MTTR/SIEM/RTO/RPO.
- CI/CD & Automation:** Jenkins, JFrog, BitBucket, GitHub Actions, GitOps, ArgoCD.
- Scripting & Development:** Python, bash.
- Performance & Testing:** LoadRunner, JMeter, QxDM, Wireshark, Anritsu 8475, testing tools.

## EDUCATION & Certifications

- B.Tech. in Electronics & Communication Engineering – KITS(S)**
- M.Tech. in Electronics & Instrumentation Engineering – JNTU, Kakinada & PRINCE2, AWS Certified Solutions Architect**