

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 infrastructure 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