



Certified

Solutions Architect - Associate

AWS DevOps & SRE Engineer

MOTHUKURI MALLIKARJUNA

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Professional Summary:

- 9.7 years of overall experience, including 4.8 years specializing in AWS DevOps, with 1 year exposure to Site Reliability Engineering (SRE) practices.
- Hands-on expertise in DevOps tools: Git, Maven, Jenkins, Docker, Kubernetes, Terraform, SonarQube, Tomcat, Nexus, and AWS.
- Skilled in infrastructure provisioning using Terraform following best practices.
- Experience with Redis cache and Sentinel for high availability and performance.
- Deployed and managed microservices on AWS ECS and EKS services.
- Proficient in managing deployments using Kubernetes manifest files across on-prem and AWS environments.
- Strong knowledge of CI/CD pipelines using Jenkins; set up AWS Code Commit and integrated pipelines.
- Version control with Git, SVN, and GitHub; artifact generation using Maven.
- Deployed applications using Docker and Kubernetes in both cloud and on-prem environments.
- Familiar with ticketing (JIRA) and collaboration (Slack) tools, and Agile methodologies.
- Expertise in configuring NGINX as a reverse proxy; launched EC2 instances (Linux/Ubuntu/CentOS/Red Hat/Windows).
- Integrated AWS API Gateway with Lambda functions to build secure and scalable serverless RESTful APIs.
- Well-versed in AWS: ECS, EKS, ECR, Fargate, NLB, EC2, VPC, S3, ELB, IAM, Auto Scaling, CloudWatch, CloudFormation, CloudTrail, Route53, Lambda, MFA, Guard Duty, and KMS.
- Automated the export of CloudWatch logs to S3 using AWS Lambda and Python for long-term storage and compliance.
- Implemented AWS Lambda functions to automate the scheduled start and stop of EC2 instances for cost optimization.
- Implemented Blue-Green Deployment strategy using AWS (ECS/EKS/ELB/Route 53) to ensure zero-downtime application releases and seamless rollback.

Educational Qualification:

Bachelor of Technology (B.Tech) in Electronics and Instrumentation Engineering, JNTU Anantapur, Andhra Pradesh
-- Graduated in 2010

Skill Set:

- **Operating Systems** : Linux, Windows
- **Version Control** : Git, SVN
- **Build Tools** : Maven
- **Application Servers** : Apache Tomcat
- **Code Quality** : SonarQube
- **CI/CD Tools** : Jenkins
- **Ticketing Tools** : JIRA
- **IaC Tools** : Terraform
- **Configuration Mgmt.** : Ansible
- **Containers** : Docker
- **Orchestration** : Kubernetes
- **Scripting** : Shell, Python
- **Cloud Environment** : AWS (ECS, EKS, Lambda, CloudWatch, etc.)
- **Private Cloud** : Mendix Studio Pro
- **Databases** : PostgreSQL, MySQL, DynamoDB
- **Monitoring Tools** : Grafana , Prometheus, Newrelic and Logz.io
- Declarative Tool** : Argo CD

Professional Experience:

- AWS DevOps & SRE Engineer, NEC CORPORATION INDIA PRIVATE LIMITED | Bangalore, India | Dec 2021 to till date.
- Engineer in QUESO CORP LTD. (Vedang) | Bangalore, India | Feb 2021 to Nov 2021
- System Engineer in LOBO STAFFING SOLUTIONS PVT.LTD. | Bangalore, India | Sep 2020 - Feb 2021
- Engineer in ManpowerGroup Services India Pvt. Ltd. | Bangalore, India | Dec 2017 to Jul 2020

PROJECT #7: 7-Eleven Production Support

SRE Engineer | NEC CORPORATION INDIA PRIVATE LIMITED | Bangalore, India | Aug 2024 – Present

Client : 7-Eleven, USA

Tools & Technologies : AWS (ECS, CloudWatch), Jenkins (CI/CD), Git, JIRA, ServiceNow, New Relic, Logz.io (Kibana)

Roles & Responsibilities:

- Provided 24/7 monitoring of production systems and promptly escalated critical alerts to relevant application and infrastructure teams.
- Investigated system and application-level alerts using New Relic, Logz.io (Kibana), and AWS CloudWatch, delivering detailed root cause analyses to clients.
- Created incident and service request tickets in JIRA and ServiceNow, ensuring timely tracking, updates, and resolution.

- Designed and maintained dashboards in New Relic as per client specifications to monitor system health, performance, and availability.
- Analyzed logs and metrics from AWS ECS services to identify service disruptions and performance issues.
- Participated in daily client meetings to discuss incident status, resolution plans, and preventive measures.
- Executed application deployments using Jenkins pipelines, ensuring zero-downtime and compliance with production standards.
- Managed Jenkins pipeline configurations and deployments using AWS CloudFormation, ensuring reproducibility and infrastructure consistency.
- Collaborated with application and infrastructure teams to fine-tune monitoring and alerting thresholds to reduce false positives and enhance incident response time.
- Documented standard operating procedures (SOPs), incident runbooks, and knowledge articles for recurring issues to improve response efficiency.

PROJECT#6: Indonesia L-alert Systems

DevOps Engineer | NEC CORPORATION INDIA PRIVATE LIMITED | Bangalore, India | July 2023 – July 2024

Client : NEC-Japan/Indonesia

Tools & Technologies : Jenkins, Docker, Kubernetes, Maven, SonarQube, SVN, Python, AWS (NLB, ALB, EC2, VPC, S3, ELB, IAM, Auto Scaling, CloudWatch, CloudFront, Route 53, Redis, PostgreSQL, SQS)

Roles & Responsibilities

- Installed and configured Jenkins on-premises for CI/CD.
- Built and deployed containerized backend microservices using Docker.
- Retrieved code from SVN and built artifacts using Maven within Jenkins pipelines.
- Developed Dockerfiles and built images; deployed on AWS EC2 with access through ALB & CloudFront.
- Automated CloudWatch log exports to S3 using Python scripts.
- Configured NGINX load balancer within private subnets for internal access.
- Deployed PostgreSQL databases and integrated with backend services.
- Integrated AWS SQS for decoupled and scalable application workflows.
- Deployed frontend Angular code behind ALB and CloudFront.
- Implemented Redis with Sentinel for high availability.
- Enabled MFA for secure AWS access.
- Created detailed documentation for all deployment procedures.

PROJECT#5: Personalized Cancer Vaccine

Sr. System Engineer, NEC CORPORATION INDIA PRIVATE LIMITED | Bangalore, India | Oct 2021 to Jun 2023

Client : NEC-Japan

Tools & Technologies : Mendix Studio Pro, MySQL, Docker, Kubernetes, AWS

Roles & Responsibilities

- Deployed Mendix-based applications on AWS EKS clusters using Terraform scripts for infrastructure provisioning and automation.
- Created and managed IAM roles and policies to control access for developers, testers, and service accounts, ensuring principle of least privilege.
- Developed AWS Lambda functions using Python to automate the export of CloudWatch logs to Amazon S3 for long-term storage and compliance.

- Defined and implemented **RPO (Recovery Point Objective)** and **RTO (Recovery Time Objective)** strategies to support high availability and disaster recovery plans.
- Leveraged AWS Guard Duty for threat detection and continuous monitoring of the AWS environment, enhancing cloud security posture.
- Managed containerization of applications using Docker and deployed on Kubernetes clusters for scalable and reliable microservices orchestration.
- Maintained MySQL database integrations with backend applications and ensured secure connectivity and data integrity.

PROJECT#4: NEC Digital platform for public solutions

Sr. System Engineer, NEC CORPORATION INDIA PRIVATE LIMITED | Bangalore, India | Dec 2021 to Sep 2022

Project : NEC Digital platform for public solutions

Client : NEC-Japan

Tools & Technologies : Git, Kubernetes, Ingress load balancer, EFK Stack, MySQL.

Services Used : Paro, IDMS, Keycloak, TOTP, Redis, Vault, ActiveMQ

Roles & Responsibilities

- Managed the deployment of containerized services such as Paro, Keycloak, Redis, Vault, TOTP, and ActiveMQ on Kubernetes clusters.
- Utilized Helm charts to deploy and maintain applications, ensuring consistency across environments.
- Implemented Ingress Load Balancer for traffic routing and secure access to backend services.
- Integrated EFK stack for centralized logging and monitoring across multiple microservices.
- Coordinated with development teams to manage Git repositories and CI/CD pipelines for Kubernetes-based deployments.
- Configured and optimized MySQL database connections and ensured data integrity and security.
- Supported integration with NEC's internal platforms like IDMS and ensured authentication/authorization via Keycloak

NON-IT Experience

Period	Role	Organization	Function
Jul 2015 – Nov 2017	Engineer	Quess Corp Ltd	LTE Wireless (Telecom Domain)