Venkata Naga Sai Saran Nichenametla

AWS Devops Engineer

Hyderabad, India 500081 ◆ +916304925132 ◆ vsai7305@gmail.com ◆
WWW: https://saisaran63.github.io/saisaran/ ◆ **LinkedIn:** https://www.linkedin.com/in/nichenametla-venkata-n

Professional Summary

Results-driven AWS Dev Operations Engineer at Speshway Solutions Pvt. Ltd., adept at enhancing deployment efficiency through CI/CD automation. Proficient in Docker, Kubernetes, and Terraform, I excel in infrastructure as code and collaborative problem-solving, ensuring seamless project lifecycles and effective resource management.

Work History

AWS Dev Operations Engineer, 02/2023 - Current
Speshway Solutions Pvt. Ltd. – Hyderabad, India

- Improved code deployment efficiency by automating processes with CI/CD pipelines.
- Maintained version control systems like Git or SVN for seamless collaboration among developers and engineers during project lifecycles.
- Designed and implemented containerization strategies using Docker and Kubernetes, improving resource utilization and management.
- Monitored automated build and continuous software integration process to drive build/release failure resolution.

Project 1:
AWS Implementation in DevOps
A skilled DevOps Engineer with hands-on experience implementing AWS services to streamline application deployment, infrastructure automation, and continuous integration/continuous delivery (CI/CD). Proficient in using AWS tools and services such as EC2, S3, CloudFormation, CodePipeline, and EKS to optimize workflows, enhance scalability, and improve security. Adept at integrating containerization and orchestration tools, monitoring performance with CloudWatch, and implementing disaster recovery strategies to ensure high availability and reliability.
Technologies & Tools:

- AWS Services: EC2, S3, CloudFormation, CodePipeline, CodeBuild, CodeDeploy, ECS, EKS, Lambda, IAM, CloudWatch,RDS, DynamoDB
- Infrastructure as Code (IaC): CloudFormation, Terraform
- CI/CD: AWS CodePipeline, Jenkins, GitLab CI/CD

- Monitoring & Logging: CloudWatch
- Containerization: Docker, ECS, EKS
- Operating System: Linux
- Programming Language: Python
- Database: MySQL

Project 2:

Terraform To Deploy AWS Lambda Function with S3

As part of a cloud automation project, I utilized **Terraform** to provision and configure **AWS Lambda functions** triggered by events from an **S3 bucket**. This project involved automating the deployment of serverless applications using infrastructure-as-code (IaC) principles, ensuring scalability and efficient resource management.

Key Responsibilities:

- Designed and implemented infrastructure for deploying Lambda functions in AWS using **Terraform**.
- Configured **S3 event notifications** to trigger Lambda functions upon object creation in S3 buckets.
- Defined IAM roles and policies to secure Lambda functions and control access to AWS resources.
- Automated the Lambda deployment process, enhancing operational efficiency and reducing deployment time.
- Implemented S3 bucket notification configurations to filter specific events, such as object uploads or modifications.
- Applied best practices for managing AWS resources and security by following the least-privilege principle.

Technologies and Tools:

- Cloud Platforms: AWS (Amazon Web Services)
- Infrastructure as Code (IaC): Terraform
- Compute Services: AWS Lambda
- Storage: Amazon S3
- Security: AWS IAM (Identity and Access Management), Lambda Permissions
- Programming Languages: Python (for Lambda function options)
- Version Control: Git
- Automation Tools: Terraform CLI

Project 3:

Cloud Engineer | 3-Tier Application Deployment on AWS ECS (Elastic Container Service)

In this project, I was responsible for deploying a **3-tier production application** on **AWS ECS** (Elastic Container Service), involving the setup of separate tiers for the **front-end**, **back-end**, and **database**. The application was containerized using Docker, with efficient orchestration through ECS for scalability, load balancing, and high availability.

Key Responsibilities:

- Designed and implemented a **3-tier architecture** consisting of a **front-end**, **back-end**, and **database** layer, deployed using **Docker** containers in **AWS ECS**.
- Managed the orchestration and scaling of containers through **AWS ECS** with **ECS Fargate** and **EC2 instances** for optimal resource utilization.
- Set up **Elastic Load Balancer (ELB)** to distribute traffic across ECS tasks for high availability and performance.
- Integrated **Amazon RDS** for the database layer, ensuring data availability, scalability, and security in the production environment.
- Utilized **AWS VPC** to configure network isolation and secure communication between ECS services and other AWS resources.
- Implemented monitoring and logging solutions using **CloudWatch** for resource tracking, logs, and performance insights.
- Automated infrastructure provisioning using **Terraform**, ensuring consistent and repeatable deployments of the application architecture.
- Applied **security best practices** using **IAM roles and policies** for controlling access between different layers and AWS resources.

Technologies & Tools:

- Cloud Platforms: AWS (Amazon Web Services)
- Compute Services: AWS ECS (Elastic Container Service), ECS Fargate, EC2 Instances
- Containerization: Docker
- Networking: AWS VPC, Elastic Load Balancer (ELB)
- Database: Amazon RDS (for production database)
- Infrastructure as Code (IaC): Terraform
- Monitoring and Logging: AWS CloudWatch
- CI/CD Tools: Jenkins (for deployment automation)
- Security: IAM (Identity and Access Management)
- Automation and Orchestration: ECS Task Definitions, ECS Services
- Programming Languages: Python

Design Engineer, 08/2021 - 02/2023

Cadsys India Limited – Hyderabad, India

- Streamlined the design process for increased efficiency by utilizing advanced CAD software tools.
- Managed multiple projects simultaneously while adhering to strict deadlines and maintaining a high level of attention to detail.
- Optimized existing designs, reducing production costs and enhancing overall performance.
- Addressed design challenges and evaluated alternative design models to meet project requirements.

Project

- AT&T (F1,F2 & Permits)
- Comcast Permits

- Lumen (HLD,Permits)

Skills

Jenkins

Infrastructure as Code

Monitoring and logging

Knowledge of services (S3,EC2,IAM,RDS,Code Deploy, etc..,)

Jenkins deployment

MySQL databases

Docker and Kubernetes experience

Education

B.Tech: Electronics And Communications Engineering, 07/2017 - 05/2021
SRM Institute of Science And Technology - Chennai

- Percentage 66.55%

Intermediate: MPC, 07/2015 - 04/2017
Sri Chaitanya Junior College - Vijayawada

- Percentage 89%

10th: 06/2014 - 03/2015
Ravindra Bharathi School - Allagadda

- Percentage 80%

CERTIFICATIONS

AWS Cloud Practitioner Essentials Certificate
Issued: April 2025
Completed the AWS Cloud Practitioner Essentials course, demonstrating foundational knowledge of AWS cloud services and core cloud computing concepts.

AWS Educate Introduction to Cloud 101 Badge
Issued: April 2025
Earned the AWS Educate Introduction to Cloud 101 Badge, demonstrating foundational knowledge of cloud computing and AWS services.

AWS Educate Getting Started with Storage Badge
Issued: April 2025
Earned the AWS Educate Getting Started with Storage Badge, demonstrating knowledge of AWS storage services and their use in cloud solutions.

AWS Educate Machine Learning - DeepRacer Badge

Issued: April 2025

Earned the AWS Educate Machine Learning - DeepRacer Badge, demonstrating skills in reinforcement learning and training autonomous models using AWS DeepRacer.

AWS Educate Machine Learning Foundations Badge

Issued: April 2025

Earned the AWS Educate Machine Learning Foundations Badge, showcasing fundamental knowledge of machine learning concepts and AWS tools for building ML models.