

# SHARANGOUDA G

Cloud & DevOps Engineer | AWS Certified | Terraform | CI/CD | Docker | Linux

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## Professional Summary

**AWS Certified Solutions Architect – Associate** with hands-on experience in designing, deploying, and managing scalable cloud infrastructure on AWS. Skilled in CI/CD automation, Infrastructure as Code (Terraform, CloudFormation), and containerization using Docker and Kubernetes. Proficient in monitoring, cost optimization, and automation with a strong foundation in Linux system administration. Dedicated to continuous learning and growth in cloud-native technologies.

## Key Skills

- Cloud Platforms: **AWS** (EC2, S3, RDS, Lambda, VPC, IAM), **GCP** (currently learning)
- Infrastructure as Code: **Terraform, AWS CloudFormation, Ansible**
- CI/CD Tools: **Jenkins, GitHub Actions, Git**
- Containers & Orchestration: **Docker, Kubernetes**
- Monitoring & Cost Management: **AWS CloudWatch, Budgets, Alarms**
- Scripting & Automation: **Shell scripting, Python**
- OS & Networking: Linux administration, system configuration, subnetting, routing

## Certifications

- AWS Certified Solutions Architect – Associate  
Issued: March 29, 2024 | Valid Until: March 29, 2027  
Validation Number: d03461f14c5f4e6889c23524b4c88ab2
- Google Associate Cloud Engineer (ACE) (In Progress)

## Cloud & DevOps Projects

### 1. Static Website Hosting on AWS

Tech Stack: Amazon S3, Route 53

- Deployed a static portfolio website using S3 with version control and bucket policies.
- Configured Route 53 for custom domain mapping and DNS management.

### 2. Scalable Three-Tier Web Application on AWS

Tech Stack: AWS (VPC, ALB, EC2, RDS), IAM, Security Groups

- Designed and implemented a fault-tolerant three-tier architecture using VPC subnetting (public/private), ALB for load balancing, EC2 for compute, and RDS for managed database services.
- Applied IAM roles and security groups to enforce security and isolation between application layers.

### 3. CI/CD Pipeline with Jenkins and Java Spring Boot

Tech Stack: Jenkins, GitHub, Java Spring Boot, Maven

- Developed and deployed a microservice-based Java Spring Boot application using Jenkins for continuous integration and automated deployments.
- Configured Maven build lifecycle and unit tests within the CI pipeline.
- Set up Jenkins master-slave architecture to enable distributed pipeline execution across agent nodes.

### 4. Monitoring and Cost Management on AWS

Tech Stack: AWS CloudWatch, Budgets, EC2

- Configured CloudWatch alarms for real-time EC2 CPU utilization monitoring.
- Implemented AWS Budgets to trigger notifications when monthly usage exceeded defined thresholds (e.g., ₹100).
- Automated cloud usage visibility to reduce manual checks and control spending.

### 5. Infrastructure as Code (IaC) with Terraform

Tech Stack: Terraform, AWS (EC2, S3, IAM)

- Maintained and upgraded cloud infrastructure by writing reusable Terraform modules.
- Automated provisioning and teardown of development environments for faster Dev/Test cycles.

### 6. Containerization and Orchestration

Tech Stack: Docker, Kubernetes, YAML

- Containerized application components using Docker for portability.
- Wrote YAML configuration files to define Kubernetes resources such as Pods, Services, and Deployments.
- Deployed and managed applications on Kubernetes clusters using kubectl, with rolling updates and scaling strategies.

### 7. Serverless Architecture and CloudFormation

Tech Stack: AWS CloudFormation, AWS Lambda

- Gained practical exposure to writing and interpreting CloudFormation templates.
- Studied principles of serverless architecture for scalable, event-driven applications.

## Education

Bachelor of Engineering – Mechanical Engineering

Gogte Institute of Technology, Belagavi | Aug 2014 – Oct 2018

Class 12 (CBSE)

Sainik School Bijapur | May 2013 – May 2014