

NAYAN ZAGADE

AWS Certified Solutions Architect – Associate

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PROFESSIONAL SUMMARY

AWS Certified Cloud Solutions Architect specializing in DevOps automation and infrastructure optimization. Experienced in designing resilient AWS architectures, implementing CI/CD pipelines, and managing containerized applications with Kubernetes. Proven track record in cost optimization and automated deployment strategies.

PROFESSIONAL EXPERIENCE

DevOps Engineer - Intern

HumanCloud Technologies | Pune | July 2024 – Present

- Implemented AWS cost optimization strategies by improving EC2/EKS configurations and leveraging Spot Instances
- Deployed and managed EKS clusters with Karpenter for efficient, dynamic, and scalable node provisioning
- Configured Argo Rollouts for blue-green and canary deployments enabling zero-downtime releases
- Integrated DynamoDB for scalable metadata storage supporting log management workloads
- Automated CI/CD pipelines using Jenkins, GitHub, Helm, and Kubernetes manifests
- Strengthened cloud infrastructure using IaC (Terraform), monitoring, and container orchestration best practices

PROJECTS

GlidingPath – Cloud Deployment Project (AWS ECS)

- Containerized and deployed frontend, backend, Keycloak, Redis, and JBoss Workbench services using ECS on EC2/Fargate instances
- Configured Application Load Balancer with path-based routing, target groups, and health checks
- Implemented AWS Certificate Manager SSL with full HTTPS support and HTTP to HTTPS redirection
- Integrated Keycloak for centralized Identity and Access Management
- Deployed Redis for performance optimization and caching
- Ensured production-grade reliability using ECS auto-scaling, IAM roles, and secure networking

LeaseOasis & Property Bulls – Multi-Architecture EKS Deployment

- Designed and deployed Amazon EKS clusters supporting x86 and ARM workloads
- Applied cost optimization using EC2 Spot Instances with Karpenter node provisioning
- Integrated Argo Rollouts for canary deployments with real-time monitoring
- Automated cluster scaling to handle variable workloads
- Enhanced deployment pipeline using Helm charts and Kubernetes manifests

CI/CD Pipeline with Jenkins

- Built Declarative Pipeline for Java applications covering build, test, analysis, package, and deploy stages
- Integrated SonarQube for static code analysis and security vulnerability checks
- Packaged and containerized applications using Docker and Docker Compose
- Published Docker images to private container registries
- Automated artifact deployment to Apache Tomcat on AWS EC2 using SSH and SCP

AWS Infrastructure Deployment using Terraform

- Provisioned VPC, subnets, Internet Gateway, route tables, security groups, and EC2 instances using Terraform
- Deployed production-ready web server infrastructure in AWS cloud environment
- Implemented Infrastructure as Code best practices for repeatable deployments

TECHNICAL SKILLS

AWS Certified Skills: Solutions Architecture, EC2, EKS, ECS, IAM, Application Load Balancer, VPC, CloudWatch, Auto Scaling, Load Balancing, Certificate Manager, DynamoDB, Cost Optimization

DevOps Tools: CI/CD, Git, GitHub, Jenkins, Docker, Kubernetes, Argo Rollouts, Helm, SonarQube, Terraform, Ansible, Infrastructure as Code (IaC), Pipelines as Code

Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP)

Programming Languages: Python, Groovy DSL, Linux Shell Scripting, Bash

Operating Systems: Linux, Windows, macOS

Container Technologies: Docker, Kubernetes, Container Orchestration

EDUCATION

Bachelor of Technology in Computer Engineering

DY Patil School of Engineering and Technology | 2021 – 2024

Diploma in Computer Engineering

DY Patil Polytechnic | 2018 – 2021

Secondary School Certificate (10th Grade)

ADV Bapusaheb Bhonde High School | 2018

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- Advanced Certification in Cloud Computing & DevOps (IIT Guwahati – Ethans Tech)
- AWS Cloud Technical Essentials – Coursera
- Machine Learning Using Python – D.Y. Patil University