VIGNESHKUMAR V

+91 6380868497 | vigneshkumarv1312@gmail.com | Pondicherry, India | LinkedIn | Portfolio

PROFESSIONAL SUMMARY

AWS Cloud & DevOps Engineer with 2 years of hands-on experience designing, automating, and deploying secure, highly available AWS cloud infrastructure. AWS Certified DevOps Engineer – Professional and AWS Certified Solutions Architect – Associate with strong expertise in Terraform, ECS Fargate, Docker, VPC, ALB, RDS, CI/CD, and GitHub Actions. Experienced in building multi-tenant architectures, private networking, infrastructure automation, containerized application deployments, and cloud monitoring. Strong foundation in Linux, Python/REST APIs, and AWS security, with a focus on scalable, reliable, and production-ready cloud solutions.

WORK EXPERIENCE

AWS Cloud & DevOps Engineer - Meyicloud Solutions, Pondicherry *Mar 2025 – Present*

- Designed and deployed production-grade AWS infrastructure using Terraform across VPC, EC2, ECS Fargate, ALB, RDS, Route 53, S3, Lambda, and IAM, with a focus on scalability, security, and high availability.
- Developed reusable Terraform modules and automated infrastructure provisioning, improving deployment consistency and reducing manual configuration across environments.
- Built and maintained CI/CD pipelines using GitHub Actions, GitLab CI/CD, and AWS CodePipeline/CodeBuild for automated application builds, testing, Docker image delivery, and deployments.
- Containerized and deployed applications using Docker and ECS Fargate, implementing load balancing, private networking, service scaling, and secure application-to-database communication.
- Implemented cloud monitoring and troubleshooting using CloudWatch, Prometheus, Grafana, and Loki; developed Python-based Flask/FastAPI REST APIs and supported Linux-based cloud environments.

KEY PROJECTS

1. Multi-Tenant AWS ECS Infrastructure & CI/CD Platform

- Architected and deployed a secure multi-tenant application platform using Terraform, AWS ECS, ALB, RDS Multi-AZ, VPC, and private networking, supporting Users, CRM organization admins, and Super Admin workloads.
- Implemented Cloudflare → ALB → ECS architecture with separate ECS services for user and organization-admin applications, while providing private Super Admin access through an OpenVPN-based VPN.
- Designed secure private-subnet deployment for application services and databases, with RDS Multi-AZ for high availability; implemented GitHub Actions CI/CD to build and deploy Docker images to ECS using AWS OIDC-based authentication.

2. Highly Available AWS Infrastructure & CI/CD Platform

- Provisioned production-grade AWS infrastructure for Spring Boot + React apps using EC2, ALB, RDS (PostgreSQL), VPC, Security Groups, and Route 53 with Terraform IaC modules.
- Implemented GitLab CI/CD pipelines for automated build, test, and deployment; designed private backend / public frontend architecture with ALB-based routing.

3. Cloud-Native ECS Fargate Application Deployment

- Architected and deployed React + FastAPI application on ECS Fargate with S3/CloudFront (frontend), ALB, and MongoDB on private EC2 using Terraform end-to-end.
- Configured AWS CodePipeline for continuous delivery; designed secure VPC with public CDN layer and private backend/database communication.

TECHNICAL SKILLS

AWS Services:	EC2, ECS, VPC, ALB, Route 53, S3, RDS, Lambda, IAM, CloudFront
IaC & Automation:	Terraform, AWS CloudFormation
CI/CD & DevOps:	GitHub Actions, GitLab CI/CD, AWS CodePipeline
Containers:	Docker, ECS
Programming:	Python, Flask, FastAPI, REST APIs
Monitoring:	CloudWatch, Prometheus, Loki, Grafana
OS & Tools:	Linux, Git, Bash
Databases:	PostgreSQL

CERTIFICATIONS

AWS Certified DevOps Engineer – Professional | AWS | Valid through 2029
AWS Certified Solutions Architect – Associate | AWS | Valid through 2029

EDUCATION

Master of Computer Applications (MCA) *Dec 2022 – May 2024*
Rajiv Gandhi College of Engineering & Technology, Pondicherry | CGPA: 7.50
Bachelor of Computer Applications (BCA) *Sep 2019 – Aug 2022*
Rajiv Gandhi Arts & Science College, Pondicherry University | CGPA: 6.38