

ARAVINDAKRISHNAN V

Cloud Engineer

Kochi, Kerala · aravindakrishnanv@tutamail.com

Portfolio · LinkedIn · GitHub

SUMMARY

Cloud Engineer with hands-on experience operating and automating AWS infrastructure for enterprise customers across healthcare, automotive, and SaaS. AWS Solutions Architect – Associate and CCNA certified. Designs serverless and containerized architectures end-to-end — VPC networking, IAM security, Terraform IaC, and keyless OIDC CI/CD pipelines.

SKILLS

Cloud (AWS): EC2, VPC, S3, IAM, Lambda, DynamoDB, RDS, CloudFront, ECS/Fargate, App Runner, Route 53, CloudWatch, WAF, SQS, OpenSearch, ELB, Auto Scaling

IaC & CI/CD: Terraform, GitHub Actions, OIDC, Ansible

Containers & Orchestration: Docker, Kubernetes, ECS, Fargate

Monitoring: CloudWatch, Grafana

Languages: Python, Bash, SQL, JavaScript

OS & Networking: Linux, Nginx, VPC, VPN, GNS3

Tools: Git, GitHub

CERTIFICATIONS

AWS Certified Solutions Architect – Associate · Cisco Certified Network Associate (CCNA)

EDUCATION

Govt. Model Engineering College, Kochi, Kerala

June 2025

B.Tech, Electronics & Communication Engineering

WORK EXPERIENCE

Cloud Engineer — Zarthi

Oct 2025 – Aug 2026

Remote, India

- Operated AWS infrastructure for **10+ enterprise customers** across healthcare, automotive, and SaaS verticals, ensuring high availability across production and development environments.
- Provisioned and administered Linux and Windows EC2 fleets across prod/dev/test — AMIs, key pairs, EBS snapshots, right-sizing — and resolved incidents via log analysis and request tracing in Linux.
- Strengthened security posture across **10+ AWS accounts** with IAM users, groups, roles, and least-privilege policies, and enforced MFA org-wide.
- Designed and configured VPC networking for **10+ customer environments** — subnets, route tables, Internet/NAT gateways, NACLs, security groups, VPC peering, and site-to-site VPN to on-prem data centers.
- Automated backups via AWS Backup with Lambda-driven snapshot cleanup and optimized S3 storage classes, replacing a recurring manual snapshot-hygiene task and reducing storage spend.
- Instrumented monitoring with **30+ CloudWatch alarms** and Grafana dashboards (CPU/memory/disk) and set up AWS WAF and CloudFront, so incidents surface from alerts rather than customer reports.
- Reduced monthly cloud spend via Savings Plans / Reserved Instance analysis, storage-class tuning, and right-sizing; scaled workloads with Route 53, ELB, and Auto Scaling.

PROJECTS

ClearSky — Multi-Account AWS Posture & Cost Platform

Lambda, DynamoDB, CloudFront, Cognito,

Terraform, GitHub Actions

- Built a serverless security-posture, cost, and inventory platform: 24+ deterministic detectors with a finding lifecycle in DynamoDB, a Cognito-authenticated dashboard on CloudFront, and an agentic AI investigator running read-only tool-use loops against live accounts.
- Onboards member accounts via cross-account IAM assume-role with an SSM-backed registry; ships through GitHub Actions with OIDC plan/apply roles and remote S3 state.

Cloud-Native Portfolio

AWS, Terraform, Lambda, DynamoDB, CloudFront, OIDC, GitHub Actions

- Engineered a serverless portfolio as a single Terraform stack — private S3 behind a CloudFront CDN with a Python/Lambda + DynamoDB visitor-counter backend — shipped via a secure GitHub Actions pipeline with keyless OIDC, remote S3 state, and branch-protected plan/apply. Live at www.aravindakrishnan.cloud.

Microservices Platform Infrastructure *ECS-on-EC2, RDS PostgreSQL, Redis, OpenSearch, SQS, Terraform*

- Authored modular AWS IaC for a .NET microservices platform: a no-NAT VPC running 8 services on ECS-on-EC2 behind an ALB, with a synchronous path (ALB → ECS → Redis/OpenSearch/Postgres) decoupled from an async event path (S3 → SQS → workers), each queue with a dead-letter queue.

Automated CI/CD for AWS Container Services *ECS Fargate, App Runner, Docker, Terraform, OIDC*

- Built two fully automated pipelines deploying a containerized Python app to a production-grade ECS Fargate environment behind an ALB and a serverless AWS App Runner environment — all networking in Terraform, authenticating via keyless OIDC.