

EXECUTIVE SUMMARY

AWS Certified Cloud Practitioner and BSc graduate with a strong passion for DevOps. Skilled in automation, Infrastructure as Code (IaC), CI/CD, cloud computing, and containerization. Eager to enhance software delivery and scalability in modern DevOps environments.

TOOLS AND TECHNOLOGIES

- AWS
 - TERRAFORM
 - LINUX
- JENKINS
 - BASH SCRIPTING
 - DOCKER
- GITHUB
 - NGINX
 - ANSIBLE

PROJECTS

ALWAYS-TILE EMAIL AUTOMATION | PearlThoughts

• [MAY - 2025 to JUN - 2025]

Contributed to the Always-Tile project by automating infrastructure provisioning and CI/CD workflows for an email automation feature on Google Cloud Platform (GCP) using Terraform and GitHub Actions.

Implementation:

- Wrote modular Terraform code to provision GCP services: Cloud Storage (Buckets), IAM roles, Cloud Run, and Pub/Sub.
- Followed Terraform best practices to structure reusable modules and reduce manual configuration errors.
- Streamlined deployment for testing and production environments, minimizing repetitive tasks and improving consistency.
- Configured GitHub Actions to automate CI/CD pipelines for email automation feature deployments.
- Enabled secure, scalable infrastructure for serverless execution and asynchronous messaging.

Impact:

- Reduced human error and manual effort in setting up test and prod environments.
- Accelerated development lifecycle and increased deployment reliability.

MEDUSA BACKEND DEPLOYMENT ON AWS ECS | GitHub

• [APR - 2025]

Successfully deployed the open-source Medusa.js backend on AWS ECS using a fully automated CI/CD pipeline with Terraform and GitHub Actions, ensuring scalable, reliable, and production-ready infrastructure.

Implementation:

- Developed modular Terraform to provision AWS infrastructure: VPC, subnets, IGW, RT, ALB, ECS Fargate, PostgreSQL (RDS), and CloudWatch.
- Configured GitHub Actions for CI/CD automation: build, push, and deployment workflows.
- Built and pushed optimized multi-stage Docker images (reduced from 1.06 GB to 154 MB) to Docker Hub.
- Set up ECS Task Definitions and Services to deploy the Medusa backend containers.
- Implemented secure access and networking using IAM roles, security groups, and environment variables.
- Enabled monitoring and alerting using AWS CloudWatch.

Challenges Faced & Solutions:

- Admin build error: Resolved by correcting the path and ensuring build execution before server start.
- Database not migrating: Resolved by modifying the RDS parameter group to enable necessary configurations for migration compatibility.

CERTIFICATES

AWS Certified Cloud Practitioner

• [JAN - 2025 to JAN - 2028]

ACADEMIC CREDENTIALS

Bachelor of Science in Visual Communication | Annai College of Arts & Science, Kumbakonam, Tamil Nadu, India • 2022 • GPA: 7.79