Waleed Shahab – AWS Solutions Architect Associate Portfolio

This portfolio showcases 10 hands-on AWS projects demonstrating practical implementation of compute, storage, automation, and cost optimization concepts.

Project 1 – Static Website Hosting on S3 + CloudFront

Deployed a fully static website using Amazon S3 for storage and CloudFront for CDN distribution. Configured bucket policies, versioning, and caching for global performance.

Project 2 – EC2 + RDS WordPress Blog

Launched a WordPress blog hosted on EC2 with RDS for database management. Used Elastic IP, security groups, and IAM roles for secure access.

Project 3 – 3-Tier Web Application Architecture

Built a classic 3-tier architecture with web, app, and database layers on AWS. Implemented Load Balancer + Auto Scaling for resilience and high availability.

Project 4 – Serverless Resume Website

Designed a resume website using S3 (static hosting), API Gateway, Lambda, and DynamoDB. Fully serverless, scalable, and cost-efficient architecture.

Project 5 – Event-Driven Architecture

Created an event-driven system (S3   SNS   Lambda   DynamoDB). Automated workflows triggered by file uploads in S3.

Project 6 – Backup & Disaster Recovery Simulation

Configured cross-region backup strategy using S3 replication and AWS Backup. Demonstrated disaster recovery failover for business continuity.

Project 7 – Multi-Region High Availability Web App

Deployed web app replicas in multiple AWS regions behind Route 53 latency-based routing. Ensured uptime and performance under regional failure conditions.

Project 8 – CI/CD Pipeline on AWS

Automated code deployment using CodeCommit, CodeBuild, CodeDeploy, and CodePipeline. Implemented continuous integration and delivery for faster release cycles.

Project 9 – Infrastructure as Code (Terraform/CloudFormation)

Deployed AWS infrastructure using Terraform templates and CloudFormation stacks. Enabled repeatable, version-controlled infrastructure provisioning.

Project 10 – AWS Cost Optimization Dashboard

Built a dashboard with Budgets, SNS, and CloudWatch to monitor AWS spending. Added cost alerts and visualization for proactive budget management.