R ASWIN

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PROFESSIONAL SUMMARY

Cloud-focused professional with a solid grasp of AWS core services and cloud architecture best practices. Demonstrated ability to design secure, scalable, and cost-efficient solutions aligned with the AWS Well-Architected Framework. Strong understanding of high-availability architectures, serverless computing, and DevOps fundamentals. Analytical problem-solver with a disciplined learning mindset, prepared to contribute to and optimize real-world cloud environments.

EDUCATION

SRM Institute of Science and Technology   Chennai, India
Bachelor of Technology in Computer Science and Engineering   *2023 – 2027*
– **CGPA:** 7.6

CERTIFICATIONS

AWS Certified Solutions Architect – Associate   *Active*
Cisco Certified Network Associate (CCNA)
Microsoft Certified: Security, Compliance, and Identity Fundamentals (SC-900)

TECHNICAL SKILLS

Core Competencies: Cloud Architecture, High Availability, Fault Tolerance, Disaster Recovery, Monitoring, CI/CD
Cloud Compute: EC2, Lambda, ECS, Fargate, Beanstalk, VPC, Route 53, CloudFront, API Gateway
Storage & Database: S3, EBS, EFS, FSx, RDS (Multi-AZ), Aurora, DynamoDB, ElastiCache, Redshift
Security: IAM, KMS, Cognito, WAF, Shield, Secrets Manager, GuardDuty, Security Groups
Management & Monitoring: SQS, SNS, EventBridge, CloudWatch, CloudTrail, Config, Systems Manager
OS & Scripting: Linux (RHEL/Ubuntu), Bash, Python, Windows Server
Networking: TCP/IP, DNS, HTTP/S, SSH, Subnetting, CIDR, OSI Model

KEY PROJECTS

Serverless Order Processing Microservice
AWS Lambda, API Gateway, SQS, DynamoDB
– Architected a decoupled, event-driven backend for handling e-commerce order ingestion, replacing traditional server-based polling with instant event triggers.
– Integrated Amazon SQS as a message buffer between the API and compute layer, preventing data loss during simulated traffic spikes and ensuring 100% message durability.
– Utilized AWS Lambda for compute and DynamoDB for storage, resulting in a zero-cost infrastructure footprint during idle periods compared to always-on EC2 instances.

Fault-Tolerant 3-Tier Web Infrastructure
VPC, EC2, Application Load Balancer, Auto Scaling, RDS
– Designed a secure VPC network across two Availability Zones with public/private subnet isolation to protect backend resources from direct internet access.
– Deployed an Application Load Balancer backed by an Auto Scaling Group with dynamic tracking policies to automatically add/remove instances based on CPU utilization.
– Provisioned an RDS MySQL instance in Multi-AZ mode to ensure automatic failover and data persistence in the event of a zonal outage.

CI/CD Automated Cloud Portfolio
S3, CloudFront, GitHub Actions, AWS WAF
– Hosted a static web application on Amazon S3 integrated with CloudFront (CDN) to reduce global latency and offload traffic from origin servers.
– Built a CI/CD pipeline using GitHub Actions that automatically builds and syncs code changes to the S3 bucket whenever commits are pushed to the main branch.
– Hardened the application security by implementing Origin Access Control (OAC) to restrict direct S3 access and configured AWS WAF rules to block common bot attacks.

CONTINUOUS LEARNING

DevOps Tools: Terraform, Docker, Kubernetes, GitHub Actions, Git