Rishi Majmudar

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Professional Summary

AWS Certified Solutions Architect with a Master of Engineering in Software Engineering and hands-on experience designing secure, scalable, and highly available cloud architectures on AWS. Skilled in Infrastructure as Code (Terraform), Amazon EKS, serverless computing, CI/CD automation, and cloud security best practices. Designed production-grade three-tier, microservices, and event-driven systems with strong focus on reliability, performance, and cost optimization. Seeking AWS Cloud Engineer / Solutions Architect roles focused on designing secure and cost-efficient cloud architectures.

Education

Carleton University — Ottawa, Canada
Master of Engineering in Software Engineering — *Jan 2024 – Jun 2025*

Gujarat Technological University — Gujarat, India
Bachelor of Engineering in Computer Science — *Jul 2019 – Jun 2023*

Technical Skills

Architecture: Three-tier, Microservices, Event-driven, Serverless, Multi-AZ High Availability
AWS Core: EC2, VPC, IAM, S3, RDS, Route53, CloudFront, WAF, EKS, ALB, Auto Scaling
Serverless & AI: Lambda, API Gateway, SQS, SNS, AWS Textract, Amazon Bedrock
Infrastructure as Code: Terraform (Modular), Remote State (S3 + DynamoDB), GitHub Actions, OIDC
Containers & Kubernetes: Docker, Amazon EKS, HPA, RBAC, ALB Ingress, ECR, StatefulSets, IRSA
Security & Monitoring: IAM Policies, Secrets Manager, OAC, CloudWatch, WAF Managed Rules
Other: Linux, Git, Bash, REST APIs, Python, Node.js

Projects

AI Document Parser | *Serverless, Bedrock, Textract*   GitHub | Demo

- Designed event-driven serverless architecture using Lambda, S3 triggers, DynamoDB (GSI), SQS, and API Gateway, reducing idle compute cost by eliminating always-on infrastructure.
- Integrated AWS Textract for OCR and Amazon Bedrock for AI-based structured data extraction, automating document processing workflow.
- Implemented OAuth 2.0 (PKCE) with Cognito and JWT authorization, securing user access and API endpoints.
- Optimized DynamoDB queries using Global Secondary Index (GSI), improving retrieval efficiency for user-scoped workloads.

Production-Grade Three-Tier AWS Architecture | *Terraform, OIDC, Multi-AZ*   GitHub

- Provisioned highly available multi-AZ VPC with private subnets, NAT Gateway, ALB, and RDS using modular Terraform, reducing manual deployment effort by 70%.
- Implemented CI/CD pipeline using GitHub Actions with OIDC, eliminating long-lived IAM credentials and improving security posture.
- Secured database credentials with AWS Secrets Manager and automated EC2 provisioning via user data scripts.
- Configured CloudFront as global HTTPS entry point, improving content delivery latency and enforcing secure edge access.

Cloud Portfolio Infrastructure (Infrastructure as Code)   GitHub | Demo

- Architected secure static hosting using private S3, CloudFront (OAC), Route53, ACM, and AWS WAF with managed rule sets.
- Implemented rate limiting and OWASP-based WAF protections mitigating SQL injection, XSS, and automated bot traffic.
- Engineered Terraform remote backend with S3 state storage and DynamoDB locking for safe collaborative deployments.
- Enabled keyless CI/CD authentication via GitHub OIDC with scoped IAM role policies.

Microservices Platform – Amazon EKS [GitHub](#)
- Deployed containerized microservices to Amazon EKS using managed node groups and ECR, enabling scalable container orchestration.
- Configured ALB Ingress Controller with path-based routing and Horizontal Pod Autoscaler (HPA) for dynamic traffic scaling.
- Implemented MongoDB StatefulSets with persistent volumes ensuring reliable stateful workload management.
- Designed production-style Kubernetes architecture with namespace isolation, rolling updates, resource quotas, and IAM Roles for Service Accounts (IRSA).

Professional Experience

Lecturer – Cloud Computing   Vadodara, India
KPGU University   *Aug 2023 – Dec 2023*
- Delivered structured AWS curriculum covering VPC design, IAM security, high-availability architectures, and cost optimization principles.
- Designed 15+ hands-on labs demonstrating EC2, S3, Load Balancers, Auto Scaling, and serverless deployment patterns.
- Guided students through real-world mini projects using Lambda, API Gateway, and SQS for event-driven systems.
- Mentored 50+ students on AWS architecture design and certification preparation strategies.

Web Developer Intern   Vadodara, India
Royalsoft Solutions   *Jan 2023 – Apr 2023*
- Developed scalable RESTful APIs using Node.js and Express supporting modular backend architecture.
- Integrated AWS S3 and IAM for secure file storage and controlled resource access.
- Optimized API performance, reducing response time by 30% through query tuning and efficient request handling.
- Assisted in debugging and production issue resolution, improving application reliability.

Certifications

AWS Certified Solutions Architect – Associate | [Credential](#)
Certified Kubernetes Administrator (CKA) | [Credential](#)
Terraform – Infrastructure as Code | [Credential](#)