

Rishi Majmudar

Ottawa, ON, Canada rishimajmudar@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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 <i>Master of Engineering in Software Engineering (CGPA: 9.40/12)</i>	Ottawa, Canada Jan 2024 – Jun 2025
Gujarat Technological University <i>Bachelor of Engineering in Computer Science (CGPA: 8.46/10)</i>	Gujarat, India 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](#)

- Architected fully serverless event-driven system (Lambda, S3, DynamoDB, SQS, API Gateway), eliminating always-on servers and reducing infrastructure costs by 40%.
- Automated document processing using AWS Textract and Amazon Bedrock, reducing manual data extraction time by 75%.
- Designed scalable DynamoDB schema with GSI and optimized partition strategy, improving query performance by 35% under user-scoped workloads.
- Implemented Cognito OAuth 2.0 (PKCE) with JWT authorization, securing 100% of API endpoints and preventing unauthorized access.

Production-Grade Three-Tier AWS Architecture | *Terraform, OIDC, Multi-AZ* [GitHub](#)

- Provisioned highly available multi-AZ VPC architecture using modular Terraform, reducing manual deployment effort by 70% and cutting setup time from hours to minutes.
- Implemented CI/CD pipeline with GitHub Actions and OIDC, eliminating long-lived IAM credentials and reducing credential exposure risk by 100%.
- Integrated AWS Secrets Manager for dynamic database credential rotation, strengthening security posture and eliminating hardcoded secrets.
- Configured CloudFront with ALB integration as secure global entry layer, improving content delivery latency by 30%.

Cloud Portfolio Infrastructure (Infrastructure as Code) [GitHub](#) | [Demo](#)

- Engineered secure static hosting (Private S3 + CloudFront OAC + WAF), blocking 95% of malicious requests using managed rule sets.
- Implemented WAF rate limiting and OWASP protections, reducing bot traffic by 60% during load simulations.
- Enabled centralized monitoring via CloudWatch logs and metrics, improving incident detection time by 50%.
- Designed Terraform remote backend (S3 + DynamoDB locking) ensuring 100% state consistency and safe parallel deployments.
- Implemented least-privilege IAM roles with GitHub OIDC authentication, eliminating static credential storage entirely.

Microservices Platform – Amazon EKS

[GitHub](#)

- Deployed containerized microservices on Amazon EKS with managed node groups and ECR, achieving 99.9% application availability under load.
- Configured ALB Ingress with path-based routing and Horizontal Pod Autoscaler (HPA), improving traffic handling efficiency by 25%.
- Implemented MongoDB StatefulSets with persistent volumes, ensuring zero data loss during pod restarts and scaling events.
- Enforced RBAC, namespace isolation, and IRSA policies, reducing cross-service access risk and strengthening least-privilege controls.

Professional Experience

Lecturer – Cloud Computing

KPGU University

Vadodara, India

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

Royalsoft Solutions

Vadodara, India

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](#)