

# Rishi Majmudar

Ottawa, ON, Canada [rishimajmudar@gmail.com](mailto: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

---

<b>Carleton University</b> <i>Master of Engineering in Software Engineering</i>	Ottawa, Canada 2023 – 2025
<b>Gujarat Technological University</b> <i>Bachelor of Engineering in Computer Science</i>	Gujarat, India 2019 – 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 (Nexus)** | *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

*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](#)