

RAVIKUMAR KAMANI

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GitHub: github.com/RavikumarKamani74

Cloud & DevOps Engineer | AWS | Terraform | CI/CD | Serverless | GIS-to-Cloud Transition.

SUMMARY:

Cloud & DevOps Engineer with hands-on experience across **4+ AWS-based projects**, specializing in serverless architecture, Infrastructure as Code, and CI/CD automation. Former GIS Engineer actively transitioning into Cloud roles with a strong foundation in AWS services, security best practices, and cost-optimized architectures. Preparing for AWS Certified Solutions Architect – Associate (retake; scored 707/1000 on first attempt).

SKILLS:

Cloud Platforms: AWS (EC2, S3, Lambda, API Gateway, DynamoDB, CloudFront, RDS, IAM, Route 53, KMS, Systems Manager).

DevOps & Automation: Git, GitHub, GitHub Actions, AWS CodePipeline, OIDC, CI/CD, Terraform, CloudFormation (YAML), Bash

Monitoring & Security: CloudWatch, SNS, CloudTrail, SQS, EventBridge, AWS Budgets, IAM Policies (least-privilege), KMS

Networking: VPC, NAT Gateway, ALB/NLB, Route Tables, Subnets, Security Groups, Route 53

Languages & Tools: Python (basic scripting), Linux (basic), QGIS, AutoCAD (GIS Mapping)

PROJECTS:

GitHub: <https://github.com/RavikumarKamani74>

1. Real-Time Metrics Dashboard:

Tech: Lambda | API Gateway | DynamoDB | React | S3 | CloudFront | GitHub Actions (OIDC).

- Built a metrics dashboard with real-time updates and secure API endpoints.
- Implemented cache invalidation and data simulation for consistent updates.
- Hosted React frontend on S3 + CloudFront with HTTPS.
- Deployed using GitHub Actions CI/CD pipeline with IAM OIDC authentication.

Live Demo: [Real-Time Metrics – Live Demo](#)

2. SmartCart – Serverless E-Commerce Platform:

Tech: Lambda | API Gateway | DynamoDB | Cognito | S3 | SNS | CloudFront | GitHub Actions.

- Designed and deployed a production-style e-commerce app on AWS.
- Integrated Cognito for secure user sign-up/sign-in and session management.
- Built event-driven notifications using SNS (Email/SMS).
- Automated deployment using GitHub Actions with IAM OIDC (no long-term keys).
- Monitored app health via CloudWatch logs, metrics, and alarms.

Live Demo: [SmartCart – Live Demo](#)

3. Cloud Resume Challenge – Serverless Portfolio Site:

Tech: S3 | CloudFront | Lambda | API Gateway | DynamoDB | SNS | GitHub Actions.

- Built and hosted a personal resume website with global delivery via CloudFront.
- Tracked site visits via API Gateway, Lambda (Python), and DynamoDB.
- Monitored uptime with CloudWatch; integrated SNS for alerts.
- CI/CD implemented via GitHub Actions with OIDC-based IAM role.

Live Demo: [Resume Site – Live Demo](#)

4. Secure Notes App – Serverless CRUD Application:

Tech: Lambda (Python) | API Gateway | DynamoDB | S3 | CloudFront | GitHub Actions | IAM.

- Developed a note-taking app with full CRUD functionality and IAM-based access control
- Hosted static frontend on S3 with secure HTTPS delivery via CloudFront
- Set up CloudWatch + AWS Budgets to monitor cost and usage
- Automated deployments through GitHub Actions using OIDC-authenticated IAM role

Live Demo: [Secure Notes – Live Demo](#)

EXPERIENCE:

GIS Engineer | RMSI Pvt. Ltd, Hyderabad | Dec 2021 – Feb 2025

(Transitioned to Cloud & DevOps while working full-time)

- Produced GIS maps for telecom infrastructure using QGIS and AutoCAD
 - Collaborated with engineering teams on infrastructure design and rollout
 - Completed 5+ self-initiated AWS/DevOps projects while pursuing certifications
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EDUCATION & CERTIFICATION:

B.Tech in Civil Engineering – SVS Group of Institutions, 2020

AWS SAA Certification – In Progress (707/1000 in first attempt)
