

## RAVIKUMAR KAMANI

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GitHub: [github.com/RavikumarKamani74](https://github.com/RavikumarKamani74)

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

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### 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).

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### 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)

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### 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: [dpf18rjfqfy56.cloudfront.net](https://dpf18rjfqfy56.cloudfront.net)

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#### 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: [d2v9ucnpho9ef1.cloudfront.net](https://d2v9ucnpho9ef1.cloudfront.net)

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#### 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: [d20dywo6lz1slm.cloudfront.net](https://d20dywo6lz1slm.cloudfront.net)
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#### **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: [d1nl1hlmql4m3x.cloudfront.net](https://d1nl1hlmql4m3x.cloudfront.net)

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#### **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)**

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