

# AJAY RAJ

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## Skills

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**Languages:** C/C++, Python, Javascript

**Cloud Platforms:** AWS (EC2, S3, Lambda, API Gateway, DynamoDB, CloudWatch, IAM), Azure(basics)

**DevOps Tools:** Git, GitHub, Docker, GitLab,

**Web:** HTML, CSS, JavaScript, React.js

**Databases:** MySQL, DynamoDB

**Other Tools:** VS Code, Postman, Firebase

## Education

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**KIET Group of Institutions**  
**B.TECH in Information Technology**

OCT 2023 - JULY 2027

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Advance Data Structures and Algorithms.

**Central Board Of Secondary Education (CBSE)**

06/2021 – 06/2022

Agra, IN

## Projects

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• **CI/CD Portfolio Deployment on AWS S3:** GitHub Actions • AWS S3 • IAM • CI/CD

Implemented a fully automated CI/CD pipeline to deploy a personal portfolio to AWS S3. Configured GitHub Actions with environment variables and GitHub Secrets for secure access using a custom IAM user. Set up a .yaml workflow file to enable automatic deployment on every push to the main branch, ensuring seamless integration and real-time updates to the live website.

• **Serverless URL Shortener on AWS:** AWS Lambda • API Gateway • DynamoDB • IAM • Serverless

Created a simple and cost-effective URL shortener using AWS free-tier services. Set up backend functions with AWS Lambda and API Gateway to shorten long URLs and redirect users. Stored all the link data in DynamoDB, which handles scaling automatically. Used unique IDs to generate short links and applied basic IAM permissions for security. Built the entire system without managing any servers, focusing on learning cloud services and building real-world API project

• **Image Recognition App using AWS Rekognition:** AWS S3 • Rekognition • Lambda • API Gateway • IAM

Built a beginner-friendly image recognition web app using AWS Free Tier services. When a user uploads an image to an S3 bucket, a Lambda function is triggered to analyze it using AWS Rekognition. The service detects and returns labels like "Person", "Car", or "Dog". API Gateway is used to handle HTTP requests between the frontend and backend. This project helped in learning how to integrate AI services with serverless cloud functions for real-world applications.

## Certifications

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- **AWS Certified Cloud Practitioner (CLF-C02)** – Apr 2025
- Preparing for **AWS Solutions Architect Associate (SAA-C03)**

## Hackathons & Activities

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- 5<sup>th</sup> Position in Internal SIH Hackathon in KIET College
- **Patent** Granted – Developed and patented a web-based waste management solution, showcasing innovation in environmental sustainability.