

Alok Raj

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Education

VIT Bhopal University	Sep 2023 – May 2027
<i>B.Tech in Computer Science and Engineering (Cloud Computing and Automation)</i>	CGPA: 8.85
GD DAV Public School, Deoghar, Jharkhand	Jul 2020 – Jun 2022
<i>CBSE Class XII</i>	89.2%
Saint Francis School, Deoghar, Jharkhand	Mar 2008 – Jun 2020
<i>ICSE Class X</i>	85.6%

Technical Skills

Languages: Python, Java, JavaScript, SQL

Web Development: React.js, HTML5, CSS3, REST APIs

Cloud Platforms: AWS (Lambda, API Gateway, DynamoDB, S3, EC2, CloudWatch, EventBridge, Bedrock, Rekognition, IAM) / GCP (foundational)

Databases: MongoDB, MySQL, DynamoDB

DevOps & Tools: Docker, Git, Postman.

Relevant Coursework: Strong foundation in Data Structures & Algorithms, Computer Networks, Operating Systems, Database Management Systems.

Experience

IPAGE: UM Services Pvt Ltd	Aug 2025 – Jan 2026
<i>Cloud Engineer Intern – AWS Lambda & MERN Stack (Remote)</i>	
<ul style="list-style-type: none">Deployed 30+ microservice Lambda functions for DroneTV.in, handling 3 distinct registration flows (Companies, Professionals, Events) with S3 and DynamoDB integrationReduced AI content generation costs by 85% (Rs.10 → Rs.1.5 per generation) by implementing 3 separate API calls and intelligent model switching between GPT-3.5 and GPT-4 based on Complexity and requirementDeveloped a token management system for users with transaction tracking, email notifications, and a role-based dashboard (User/Admin/Main) with approval workflows and real-time preview and edit capabilities	

Projects

Sahayak AI – AWS Lambda, Bedrock, DynamoDB, Python, React / Live / GitHub	Sep 2025
<ul style="list-style-type: none">Engineering educational AI assistant designed to impact 60% of rural middle schools upon deployment – architecting 20+ Lambda functions with AWS Bedrock and Amazon Nova Pro for context-aware multilingual responsesImplemented NCERT RAG pipeline with S3 and serverless Vector DB, reducing query response time by 70% compared to traditional database queries through semantic knowledge retrievalDeveloped Scheduled Content Delivery and Intelligent Doubt Solver modules with multilingual support (English, Hindi, Tamil and Marathi), serving both student and teacher interfaces with React-based dashboards	
SafeX 3.0 – AWS Rekognition, Lambda, S3, IAM, Python, React / Frontend / Backend	Feb 2025

SafeX 3.0 – AWS Rekognition, Lambda, S3, IAM, Python, React / Frontend / Backend	Feb 2025
<ul style="list-style-type: none">Developed a 3-factor authentication gateway combining password validation, AWS Rekognition facial recognition, and 6-digit OTP via email for enhanced security with seamless user experienceBuilt a scalable full-stack security system with React frontend and serverless AWS Lambda backend integrated with MongoDB, achieving 95% accuracy and robust email delivery system using nodemailer	

Achievements & Certifications

- Winner – Nebula Nexus Hackathon 2025, MIT Jaipur:**
- IBM DevOps & Software Engineering Professional Certificate (10/15 certificates):** CI/CD, Docker, Kubernetes, Agile
- AWS Knowledge: Cloud Essentials Badge:** Foundational AWS cloud services and serverless architecture