

Alok Raj

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EDUCATION

VIT Bhopal University	Bhopal, India
<i>B.Tech in Computer Science and Engineering (Cloud Computing and Automation)</i> — CGPA: 8.33 Sep 2023 – May 2027	
GD DAV Public School, Deoghar	Jharkhand, India
<i>Class XII, CBSE Board</i> — 89.2%	Aug 2020 – Jul 2022
Saint Francis School, Deoghar	Jharkhand, India
<i>Class X, ICSE Board</i> — 85.6%	Mar 2020

EXPERIENCE

IPage UM Services Pvt Ltd	Remote
<i>Cloud Engineer Intern (AWS Lambda, MERN Stack)</i>	AUG 2025 – Present
<ul style="list-style-type: none">Developed a cloud-native DroneTV.in portal using AWS Lambda, API Gateway, DynamoDB, and S3 with a MERN frontendBuilt secure multi-step workflow (template selection, 8-step form, AI-driven content generation, editing, publishing) with email automation and admin, user dashboardsOptimized workflow by breaking the workflow into 15 independent AWS Lambda microservices, reducing AI content generation latency from 120s to 20s (83% faster)	

PROJECTS

Space Dashboard / <i>React.js, Node.js, Chart.js, CSS</i>	Jul 2025
<ul style="list-style-type: none">Built an interactive analytics dashboard with real-time ISS tracker and Mars weather updates (auto refresh every 5 min)Integrated multiple Open APIs (OpenStreet, MyMaps) for fetching data and map rendering and hosted on VercelDesigned modular React components ensuring scalability and reusability, with visualizations wherever possible	
SafeX 3.0 Matrix / <i>AWS Rekognition, Lambda, DynamoDB, S3, React.js, Python</i>	
<ul style="list-style-type: none">Implemented 3-way authentication (password + facial recognition + OTP) reducing unauthorized access attempts by 90% using AWS RekognitionArchitected serverless architecture leveraging Lambda, DynamoDB, and S3 for scalable, low-latency authenticationAutomated monitoring with AWS CloudWatch to log security events in real-time	

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL
Cloud Platforms: AWS (EC2, S3, Lambda, API Gateway, DynamoDB, IAM, Amplify, CloudWatch, RDS, Bedrock, Amazon Q, OpenSearch)
DevOps / Tools: Docker, GitHub Actions
Databases: MySQL, MongoDB, DynamoDB, AWS RDS
Version Control: Git, GitHub
Relevant Skills: Microservice Architecture, Serverless Computing, Operating Systems, Computer Networks, Database Management, Object-Oriented Programming, Cloud Security, Monitoring & Logging

ACHIEVEMENTS & CERTIFICATIONS

Winner (1st Prize), Nebula Nexus Hackathon 2025	Jul 2025
<i>The Cosmos Club, MIT Jaipur</i>	
IBM DevOps and Software Engineering Professional Certificate	
<i>IBM (Ongoing 9/15) - Agile, Scrum, REST APIs, CI/CD, Kubernetes, Ansible</i>	
Applied Machine Learning in Python	
<i>University of Michigan (Coursera) - supervised/unsupervised learning, scikit-learn, classification, clustering algorithms</i>	
AWS Knowledge Cloud Essentials Badge	
<i>AWS Training & Certification - cloud computing fundamentals, AWS core services</i>	