

# Alok Raj

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## EDUCATION

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

## EXPERIENCE

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

## PROJECTS

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

## 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

<b>Winner (1st Prize), Nebula Nexus Hackathon 2025</b> <i>The Cosmos Club, MIT Jaipur</i>	<b>Jul 2025</b>
<b>IBM DevOps and Software Engineering Professional Certificate</b> <i>IBM (Ongoing 9/15) - Agile, Scrum, REST APIs, CI/CD, Kubernetes, Ansible</i>	<b>Nov 2024</b>
<b>Applied Machine Learning in Python</b> <i>University of Michigan (Coursera) - supervised/unsupervised learning, scikit-learn, classification, clustering algorithms</i>	<b>DEC 2024</b>
<b>AWS Knowledge Cloud Essentials Badge</b> <i>AWS Training &amp; Certification - cloud computing fundamentals, AWS core services</i>	<b>SEP 2024</b>