ANSHUMAN MOHAPATRA

Cloud Engineer (AWS | Serverless | Infrastructure as Code)

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Cloud Engineer with strong hands-on experience designing and deploying production-grade, serverless AWS systems. Proven ability to architect scalable, secure, and cost-optimized cloud platforms using AWS Lambda, DynamoDB, API Gateway, Cognito, and Infrastructure as Code. Experienced in CI/CD, GitOps, Kubernetes, and DevOps automation, with a strong focus on system reliability, performance, and cloud-native best practices. Passionate about building real-world cloud solutions that scale from zero to millions of users.

EXPERIENCE

AWS Cloud Engineer Intern (Team Lead) – F13 Technologies – Remote   **Sep 2025 – Dec 2025**

- Led a team of engineers to design and deploy **production-grade AWS serverless applications**, improving sprint delivery velocity by **40%**
- Designed and implemented a secure cloud file storage platform with AWS Cognito authentication, S3-based storage, API Gateway, and CloudFormation
- Achieved **sub-300ms API response times** through optimized Lambda execution and DynamoDB access patterns
- Implemented **Infrastructure as Code (CloudFormation)** to enable repeatable, one-command environment provisioning and teardown
- Applied cloud cost optimization and scalability best practices, ensuring reliability, security, and minimal operational overhead
- Collaborated cross-functionally to review architecture, enforce security best practices, and ensure production readiness

PROJECTS

AWS Serverless Event Ticketing Platform
Lambda, API Gateway, DynamoDB, Cognito, S3, CloudFront, CloudFormation, Node.js

- Architected and deployed a **production-grade, multi-region serverless SaaS platform** for event creation, registration, payments, and digital ticketing
- Designed event-driven backend architecture using AWS Lambda and API Gateway with secure REST APIs
- Implemented role-based authentication and authorization using AWS Cognito with JWT-based access control
- Modeled highly scalable data layer using DynamoDB with **10 Global Secondary Indexes**, achieving **single-digit millisecond query latency**
- Built secure ticketing workflows, including PDF ticket generation, QR-based validation, and fraud prevention logic
- Automated full infrastructure provisioning using Infrastructure as Code, enabling **complete production deployment in 15 minutes**
- Designed a **cost-optimized architecture costing $13/month** at low scale, with scalability plan up to **1M+ users**
- Deployed a live production system with global CDN delivery and sub-second response times

LinkForge Pro – Serverless URL Shortener & Analytics Platform
Lambda, API Gateway, DynamoDB, S3, CloudFormation

- Built a serverless URL shortening platform with **real-time click analytics** and admin dashboard
- Developed RESTful APIs using AWS Lambda and API Gateway for link creation, redirection, and analytics retrieval
- Designed DynamoDB schema optimized for high-throughput read/write access with **atomic click tracking**
- Implemented secure, cost-efficient serverless architecture aligned with AWS Free Tier and on-demand scaling
- Automated infrastructure and backend deployment using CloudFormation and shell scripts

Serverless Image Optimization Pipeline
Lambda, S3, API Gateway, Python (Pillow), IAM

- Led the design and implementation of an event-driven serverless image processing pipeline triggered by S3 uploads
- Built Lambda-based image optimization service achieving **90–98% file size reduction** with processing times **under 6 seconds**

- Implemented secure upload/download flow using S3 pre-signed URLs, eliminating AWS credential exposure in the frontend
- Resolved critical PNG transparency processing issue, enabling full multi-format image support
- Delivered a **production-ready system at $0 cost** within AWS Free Tier limits

TECHNICAL SKILLS

Cloud & DevOps: AWS (Lambda, S3, EKS, EC2, DynamoDB, Textract, Cognito, CloudFormation, API Gateway, VPC, IAM), Azure DevOps, Docker, **Kubernetes**, Terraform, ArgoCD, Jenkins, GitHub Actions, Helm, Ansible

Programming: Python, **JavaScript**, Bash, Java, C++

Infrastructure & Networking: Linux (Ubuntu, Amazon Linux), VPC, Subnets, Security Groups, NAT Gateway, Route Tables, Load Balancers

Tools & Practices: CI/CD, **GitOps**, **Infrastructure as Code**, FinOps, Git, SonarQube, Trivy, Prometheus, Grafana

EDUCATION

B.Tech – Computer Science Engineering   2022 – Present
ITER, SOA University