

# Ankit Kumar

## Senior Cloud Architect & DevOps Engineer

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### Professional Summary

**Senior Cloud Architect & DevOps Engineer** with over 4.5 years of experience in architecting, automating, and securing high-concurrency cloud environments. Expert in **AWS ecosystem design, Kubernetes orchestration, and Infrastructure as Code (CDK, Terraform)**. Proven success in delivering mission-critical airline systems and enterprise-grade automation, consistently reducing operational costs by **35%** and accelerating deployment cycles by **50%** through advanced **GitOps** and **CI/CD** integration.

### Core Competencies & Technical Skills

- **Cloud Platforms & Orchestration:** AWS (EKS, ECS, Lambda, API Gateway, S3, VPC, IAM), Docker, Kubernetes (K8s), Multi-account Strategy.
- **Infrastructure as Code (IaC):** Terraform (Reusable Modules), AWS CDK (Python), CloudFormation, Packer (Golden Images).
- **CI/CD, Automation & GitOps:** Harness, ArgoCD, GitHub Actions, AWS CodeSuite (Pipeline, Build, Commit), Python (Boto3), Bash.
- **Observability & Security:** Dynatrace, Datadog, SignalFX, AWS CloudWatch, AWS Systems Manager (SSM), EKS RBAC, IAM Least-Privilege.
- **Strategic Migrations:** Legacy to Harness/GitHub, DataDog to Dynatrace, EC2 to Serverless, Cross-Cloud/Account Migrations.

### Professional Experience

#### Emmes Services Pvt Ltd | Bengaluru, India

**Sr. DevOps Engineer** | April 2026 – Present

- **Architected end-to-end continuous delivery** workflows utilizing AWS CodePipeline, CodeBuild, and CodeCommit to streamline enterprise-grade deployments.
- **Developed multi-environment infrastructure** as code (IaC) using **AWS CDK (Python)**, ensuring automated, highly available, and scalable cloud provisioning.
- **Spearheaded GitOps methodologies** and observability improvements to enhance security postures and application delivery speed across the organization.

#### United Airlines Business Services | Gurugram, India

**DevOps Engineer II** | Aug 2025 – March 2026

- **Engineered Blue-Green deployment setups** using with CI/CD and ALBs, achieving **zero-downtime** for mission-critical airline systems handling millions of daily transactions.
- **Automated Golden AMI creation** and EC2 vulnerability patching using **Python and AWS Systems Manager (SSM)**, ensuring 100% compliance with security hardening standards.
- **Reduced annual tooling costs by \$50K+** by consolidating fragmented legacy monitoring and deployment systems into a unified **Harness and Dynatrace** stack.
- **Unified CI/CD pipelines** with Dynatrace APIs for automated quality gates and real-time performance validation.
- **Configured EKS RBAC** and cross-account IAM roles to enforce strict least-privilege access across complex AWS architectures.
- **Optimized operational efficiency** by automating log analysis and resource cleanup via **Python**, saving 150+ hours of manual toil monthly.

## **United Airlines Business Services | Gurugram, India**

### **DevOps Engineer I | Aug 2024 – Aug 2025**

- Standardized Harness CI/CD pipelines for 50+ microservices, resulting in a 40% reduction in deployment errors.
- Authored reusable Terraform modules for multi-region EKS clusters, maintaining a 99.99% uptime SLA.
- Migrated legacy EC2 workloads to AWS Lambda, reducing infrastructure overhead and cutting costs by 35%.
- Designed scalable API architectures using AWS API Gateway and OIDC authentication, successfully managing traffic peaks of 10K+ RPM.

## **Accenture India Pvt. Ltd. | Noida, India**

### **AWS Infrastructure Engineer | Dec 2022 – Aug 2024**

- **Architected serverless solutions** for Elasticsearch backups and automated the lifecycle management of AMI snapshots.
- **Optimized cloud spends** by implementing EC2 scheduling and EBS cleanup scripts, reducing annual costs by 25% combined.
- **Managed core AWS infrastructure** (VPC, IAM, Route53) and automated report generation from ServiceNow using **Python**.

## **Accenture India Pvt. Ltd. | Noida, India**

### **Associate Software Engineer | Oct 2021 – Dec 2022**

- **Developed Python and Bash scripts** for proactive infrastructure management and manual task reduction.
- **Built real-time monitoring dashboards** and alerting logic using SignalFx and CloudWatch to support production stability.
- **Provisioned foundational AWS services** including EC2, S3, and VPC to support consistent environment delivery.

## **Key Projects & Open-Source Contributions**

- **AWS Core Infra CDK:** Developed AWS CDK (Python) framework for multi-stack, multi-region, config-driven infrastructure deployments.
- **DevOps Bootstrap:** Created a robust, production-like local Kubernetes and GitOps environment using Kind and ArgoCD.
- **K8s Local Setup:** Automated cluster setup script with preconfigured port mappings for web apps, databases, and monitoring.

## **Education**

- **Bachelor of Technology**, BCE, Patna | **2017 – 2021**
- **Senior Secondary Schooling**, BSEB, Patna | **2015 – 2017**

## **Certifications**

- **HashiCorp Licensed:** Terraform Associate (003)
- **Microsoft Accredited:** Azure Administrator (AZ-104)
- **AWS Endorsed:** Solutions Architect
- **Microsoft Accredited:** Azure Fundamentals (AZ-900)
- **AWS Endorsed:** Developer – Associate