Gaurav Dhapola

AWS DevOps Engineer | Cloud, AI & Automation Specialist

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Professional Summary

DevOps Engineer with 6+ years of experience specializing in AWS Cloud, Infrastructure as Code, CI/CD automation, and container orchestration. Proven expertise in designing scalable, secure, and reliable infrastructure using AWS, Terraform, and Kubernetes (EKS). Skilled in implementing CI/CD pipelines using GitHub Actions and Jenkins, automating deployments, and optimizing infrastructure operations. Strong focus on monitoring, security, and best practices in DevOps, with experience across financial, consulting, and SaaS industries.

Core Skills

Cloud Platforms: AWS (EC2, Lambda, S3, RDS, DynamoDB, Bedrock, ECS, EKS, CloudFront, EventBridge, Step Functions, Kinesis, Glue, Secrets Manager, Cognito, Vault, MSK), GCP.
IaC Tools: Terraform, AWS CDK (TypeScript), CloudFormation, Ansible
CI/CD & Automation: GitHub Actions, Jenkins, ArgoCD, Bitbucket, GitOps, AWS CodePipeline.
Containers & Orchestration: Docker, ECS,Kubernetes (EKS), Helm.
Languages & Scripting: Python, JavaScript, TypeScript, Bash
Monitoring & Logging: CloudWatch, Grafana, New Relic, OpenSearch and prometheus
Security & Compliance: IAM, VPC, OAuth, HashiCorp Vault, AWS Secrets Manager, SAML
Data & Streaming: Kafka, AWS Kinesis, AWS Glue, AWS AppFlow
Databases: AWS RDS, Aurora Serverless, DynamoDB, MongoDB, CockroachDB
Other: GenAI (AWS Bedrock, OpenSearch), Serverless (AWS Lambda, Serverless Framework), Jfrog, GCP, Generative AI (RAG),Blockchain.

Professional Experience

GlobalLogic India Pvt. Ltd. | Senior DevOps Engineer | Oct 2022 – Present

Client 1: Benevity (Canada)

- Designed and implemented Terraform-based infrastructure for **AWS MSK, Flink, and CockroachDB** using Debezium Connector with**.
- Built automated CI/CD pipelines using GitHub Actions and Jenkins for microservices deployments to ECS.
- Integrated **blue/green deployment**s using AWS CodePipeline and GitHub Actions and jenkins.
- Managed AWS Secrets Manager for credential security and implemented OIDC authentication and for ecs cluster.
- Configured monitoring dashboards in **OpenSearch** and **New Relic** for real-time alerting.
- Led troubleshooting of deployment incidents ensuring minimal downtime and compliance with security policies.

- **Designed** and developed reusable **Terraform modules** for AWS Lambda, MSK, Flink, and MSK Connectors to enable consistent and scalable infrastructure provisioning.
- Built and optimized **multi-stage Docker images** for Java and Python microservices, integrating security scans and performance tuning.
- Implemented automated database **secret rotation** using AWS Lambda, Secrets Manager, Terraform, Ansible, and Python to enhance infrastructure security.
- Configured client bastion hosts for secure communication and monitoring of Kafka message streams across private VPCs.
- Integrated **GitHub Dependabot, SonarQube, and Trivy** into CI pipelines to automate dependency and code vulnerability scanning during pull requests.
- Optimized **CI/CD performance** by implementing parallel build stages in GitHub Actions and Jenkins pipelines.
- Designed and provisioned **CockroachDB** infrastructure from scratch using Terraform and Ansible, including cluster setup, database initialization, and role/user management.
- Integrated **CockroachDB clusters** with AWS MSK and Debezium pipelines for streaming data replication and synchronization.

Client 2: Caseware (Canada)

- Designed AWS infrastructure using **CDK** for Bedrock-based GenAI and microservice workloads.
- Automated multi-environment **EKS** deployments using **GitHub Actions** and Helm.
- Implemented **CloudWatch** and **Grafana-based monitoring** for performance and availability tracking.
- Enforced CI/CD security using IAM roles, Vault, and AWS Secrets Manager.
- Created Lambda functions, s3 bucket, eks clusters using aws cdk(typescript).
- Implemented multi-env cdk classes,nested cloudformation tempelates.

Client 3: NatWest Group (UK)

- Managed AWS streaming infrastructure using Lambda, **Kinesis**, **EMR**, and **Glue**.
- Enhanced **Jenkins-based CI/CD pipelines** with automated plugin management.
- Supported compliance alignment with AWS Security Hub and IAM policies.
- Implemented OIDC-based authentication for CI/CD pipeline access management.
- Implemented AWS Bedrock models with RAG(titan, claude)
- Worked and implemented multi-env aws infra deployments.
- Designed automated pipeline to pull and store apache plugins in jfrog using ansible and terraform.
- **Developed and maintained CI/CD pipelines for production deployments** using GitHub Actions and Jenkins, automating build, test, and release processes across multiple environments.

V3iT Consulting Pvt. Ltd. | AWS Engineer / Software Developer | Jul 2019 – Oct 2022

Project: Safran IoT (France)

- Developed **AWS IoT Core** and **Kinesis-based data ingestion pipelines**.
- Automated **ETL** workflows using **AWS Glue** and monitored through CloudWatch.
- Managed IAM roles and cross-region **S3 replication** ensuring data integrity.

Project: KPMG UME Integration (UK)

- Built automated user lifecycle management APIs integrated with SAP UME.
- Implemented **OAuth2** authentication for secure API communication.
- Reduced manual provisioning efforts by 40% through automation.

Project: vSurve Application (USA)

- Designed and implemented **Cognito-based** authentication with **MFA** and OAuth flows.
- Deployed **serverless applications** using **Lambda**, **S3**, and **API Gateway**.
- Implemented alert-based monitoring for availability and API performance.
- Built **blockchain-integrated RFID** attendance tracking using Hyperledger Fabric.
- Developed Java-based RFID ingestion integrated with SAP OData APIs.
- Implemented real-time dashboards for attendance analytics.

Certifications

• **AWS Certified DevOps Engineer** – Professional (2024–2027)
• **AWS Certified Developer** – Associate (2020-2027)
• Kubernetes Course Completion – Udemy
• Advanced Java Certification – TCS iON

Education

Bachelor of Technology (B.Tech) – Computer Science & Engineering | 2015–2019
Uttaranchal University, Dehradun, Uttarakhand, India | 74.9%

Publications

• 'Image Fusion using Wavelet Transform and its Application for Asymmetric Crypto System' – JETIR Journal.
• 'Integrating Generative AI (RAG architecture) with Banking and Financial Applications using AWS Bedrock' – GlobalLogic White Paper.

Soft Skills

Problem Solving | Innovation | Accountability | Collaboration | Adaptability

Awards:

• **Quarterly Eminence Award** for outstanding performance and contribution to organizational goals. (GlobalLogic)

• **Spot Award** for exceptional initiative and delivering high-impact results within tight deadlines. (GlobalLogic)