

Amaan Raza

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Summary

DevOps Engineer with 3 years of experience in optimizing cloud infrastructure, CI/CD pipelines, and Kubernetes clusters. Skilled in AWS resources, Terraform automation, and ensuring high availability across multiple environments. Adept at managing CI/CD pipelines, implementing advanced API management solutions. Focused on delivering efficient, scalable solutions while fostering collaboration and continuous improvement in DevOps practices.

Experience

Senior DevOps Engineer, Protiviti, Gurgaon

July 2025 – Present

- Automated testing CI/CD pipelines in Jenkins using Playwright and Robot Framework, reducing test execution time by 90% through parallelism ,Also created **shared library** structure from Declarative Pipeline
- Converted the Terraform code to deployed directly through Jenkins by writing a Jenkins pipeline to create EC2 instances, S3 storage, and other resources directly.

DevOps Engineer, Protiviti, Gurgaon

July 2022 – June 2025

- Deployed and managed around 50 microservices across lower environments (Dev, QA, UAT) and higher environments (RC)
- Implemented **Canary Deployments** to roll out a new feature to 10% of clients, enabling safe testing and validation of the feature in production.
- Deployed AWS infrastructure using Terraform and AWS console .
- Automated deployment of 50+ microservices using a **Shell script**, saving 25
- Managed **EKS and AMI upgrades** (v1.26-v1.32), resolving critical post-upgrade issues such as CNI downgrade and PVC compatibility
- Created separate **node groups using Terraform** for DEV, QA, and UAT environments in EKS clusters to support UAT performance testing, isolating environments and preventing downtime across all environments previously running on a single node group.
- Automated Apache **NIFI** upgrades using a half-automated process, reducing upgrade time and effort for secure and efficient data flow management.
- Developed a **Python** script for snapshot removal and version updates, automating a two-phase process to remove snapshots and update versions in POM files for 50+ microservices and their dependencies, transforming a tedious manual task.
- Built an automated branch cleanup script (**Shell Script**) for 40+ microservices, monitoring branch counts across 15+ services and sending Slack alerts when thresholds exceeded, eliminating the need for manual cleanup of excessive branches.
- Developed **Groovy** pipeline scripts for Jenkins Shared Library, enabling dynamic deployments and improving CI/CD flexibility by 20%.
- Conducted **performance testing** for UAT environment by creating separate YAML files and increasing resources, modifying shared library to select YAML files based on performance testing parameters.
- Reduced AWS compute costs by 24% by implementing ASGs and migrating 100% of **AMD-based workloads to ARM64**, improving performance-per-dollar efficiency
- Migrated AWS storage from **gp2 to gp3** and applied necessary configuration updates

Projects

Board Game: AWS, Docker, Kubernetes, Jenkins, GIT, SonarQube, Trivy, Nexus

This web application displays lists of board games and their reviews. While anyone can view the board game lists and reviews, they are required to log in to add/edit the board games and their reviews, implemented using DevOps methodologies. Implemented a comprehensive pipeline to host the application.

Education

PSIT, Kanpur

July 2018 – July 2022

Bachelor of Technology in Computer Science Engineering (CGPA: 7.95)

AWS Certifications

July 2025 (Expected)

AWS Certified Solutions Architect - Associate (In Progress) | AWS Cloud Practitioner (ID: 8SN20725BV4QRD)

Achievements

- Received Pat On the Back award twice.

Skills

DevOps Engineering Application Containerization and Orchestration (Docker and Kubernetes) **Source code management** (Git, Bitbucket) **Cloud operations and Administration** (AWS Azure) **Infrastructure Modernization and Automation** (Terraform) **Continuous Integration and deployment** (Jenkins and Groovy) **Application Logging and Monitoring** (Prometheus, Grafana) **Scripting** (Linux, Shell scripting, Python) **Java Build Tools** (Gradle and Maven) **Requirement Gathering and Customer Interaction**