



Rana Ziauddin

DevOps Engineer

With a 2.5 years of hands-on experience in architecting/ automation and optimizing mission critical deployments over large infrastructure. Proficient with cloud-based deployments, configuration management and developing CI/CD pipelines - A Tech Enthusiast!

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📍 Pakistan

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WORK EXPERIENCE

Dev Ops Engineer Enquizit (by CDW)

2021 - 2023

USA

Enquizit is an AWS Premier Consulting Partner – the most experienced and highest tier of partners within the Amazon Partner Network (APN).

Achievements/Tasks

- Maintained Git workflows for version control (Source Code management) in (Github, GitLab and AWS CodeCommit).
- Developed and maintained automated CI/CD pipelines for code deployments using Jenkins, CircleCi, GitLab and AWS Code Pipeline, reducing deployment time by 50% and increasing deployment frequency by 75%.
- Expertly architected and deployed advanced automated Secure DevSecOps CI/CD pipelines leveraging Jenkins, AWS code pipeline and GitLab to ensure seamless, secure software delivery. Integrated cutting-edge SAST and DAST tools within the pipelines to proactively identify and mitigate security vulnerabilities, enhancing code quality and ensuring robust security posture.
- Developed and managed solutions for Oracle to RDS Oracle and Oracle to RDS PostgreSQL Database migration.
- Played a key role in transforming a legacy monolithic application into a scalable, efficient microservices architecture. Leveraged cloud-native technologies to enhance agility and reduce operational costs, serving as a pivotal member of the team
- Developed and deployed microservices using Docker containers, orchestrated their deployments through AWS ECS, ensuring high availability and fault tolerance.
- Architected serverless functions using AWS Lambda for event-driven processing, reducing infrastructure overhead and optimizing resource utilization.
- Collaborated with development teams to adopt a DevOps culture, facilitating knowledge sharing sessions and adopting agile methodologies for faster and more efficient project delivery.
- Developed Python and Bash scripts to automate routine operations and maintenance tasks, increasing team productivity and system reliability.

SKILLS

Python/Python Scripting

Bash

Shell

Cloudformation

Jenkins

CircleCi

Gitlab

CodePipeline

AWS

Docker

CDK

Ansible

Apache

Kubernetes

Nginx

Azure

Terraform

CloudWatch

PROFESSIONAL PROJECTS

United Ways - USA (2022)

- AWS Landing Zone deployment in AWS Commercial Cloud
- This involved creating scalable, secure, and compliant cloud environments tailored to organization's unique requirements. Demonstrated expertise in developing AWS infrastructure that aligns with stringent security and compliance standards, promoting operational efficiency and data sovereignty

National Board of Medical Examiners (NBME) - USA (2022)

- AWS Landing Zone deployment in AWS Commercial Cloud
- Demonstrated a high level of expertise in building AWS infrastructure that meets strict security and compliance protocols, fostering operational effectiveness and protecting data sovereignty.

Server less Talent Management System, Free Alliance - USA (2023)

- Developed a Serverless Talent Management System leveraging AWS technologies (API Gateway, Cognito, ECS Fargate, and Load Balancers) to enhance HR operations.
- Architected a scalable, secure solution integrating AWS Cognito for user authentication and ECS Fargate for automated container management, significantly reducing operational overhead.
- Led a team through agile development cycles, achieving scalable performance and high availability, while ensuring project delivery within strict timelines and budget constraints.

CERTIFICATES

AWS Cloud Practitioner (2021)

Foundational AWS Cloud knowledge, core services, security, billing, deployment, and cloud value proposition understanding.

AWS Developer Associate (2021)

Expertise in developing, deploying applications on AWS, understanding core AWS services, security best practices, and debugging.

AWS Solutions Architect Associate (2021)

Proficiency in designing scalable, reliable AWS solutions, cost-efficient systems, security, and deployment practices.

WORK EXPERIENCE

Principal Dev Ops Engineer FedTec

2023 - Present

USA

FedTec specializes in delivering impactful technology solutions to the government sector, leveraging over 18 years of experience and deep mission understanding.

Achievements/Tasks

- Led the creation of a DevSecOps pipeline for Java/Maven applications, incorporating Jenkins, SonarQube, Nexus, StackHawk, and Tenable achieving a 40% reduction in deployment time while enhancing code security and quality.
- Orchestrated the development of STIG-compliant AMIs for Windows and Linux operating systems, ensuring adherence to stringent security benchmarks and enhancing infrastructure resilience.
- Engineered and launched a Kubernetes cluster in AWS EKS, implementing OPA Gatekeeper for robust security compliance. Automated the notarization of Docker images using AWS Signer, Notation CLI and python, enhancing security and trust in containerized deployments.
- Architected and deployed scalable AWS solutions for both server-based and serverless applications, employing services such as EC2, RDS, S3, Lambda, and DynamoDB. Expertise in delivering cost-effective, secure, and highly available architectures, demonstrating proficiency in modern cloud practices and operational excellence.
- Developed and architected a serverless movie data pipeline on AWS, extracting details for over 20,000 movies, including plots, cast, ratings, and producers. Utilized AWS Lambda, API Gateway, SQS, SNS, and S3 to automate data collection and storage, showcasing expertise in integrating scalable cloud services for efficient data processing and management.

EDUCATION

Bsc (Hons) BioTechnology Forman Christian College University (FCCU)

2017 - 2021

CERTIFICATES

Certified Kubernetes Administrator (2023)

Skills in Kubernetes cluster management, troubleshooting, and application deployment.

Azure Fundamentals (2023)

Basic understanding of Azure cloud services, security, pricing, and support.

LANGUAGES

Urdu

Native or Bilingual Proficiency

English

Full Professional Proficiency

Punjabi

Limited Working Proficiency

INTERESTS

Travelling

Cricket

System Architecture and Design

Coding and Scripting

Emerging Technologies

Cloud Technologies

Automation

Reading

Security Practices: