

# DIPESH MANDAL

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## SUMMARY

AWS Cloud and DevOps Engineer with hands-on experience in deploying scalable infrastructure, automating CI/CD pipelines, and managing containers using Docker and Kubernetes. Skilled in AWS services, Linux, scripting, and cloud monitoring with a focus on reliability, security, and efficiency.

## PROFESSIONAL EXPERIENCE

OrionInfosolutions, Jaipur - DevOps Cum System Admin Intern Feb 2025 - Jun

- Deployed and managed real-time gaming applications on AWS using EC2, S3, and CloudFront, implementing a Multi-AZ architecture with ELB, VPC, and Security Groups to ensure 99.9% uptime and enhanced scalability.
- Optimized MySQL and MongoDB performance by resolving 20+ bottlenecks through slow query profiling, and reduced downtime by 30% via proactive network log analysis and faster issue resolution.
- Built and maintained CI/CD pipelines using GitHub Actions, reducing deployment time by 50% through streamlined automation.
- Scheduled system backups and log cleanup using Bash scripts to maintain optimal system performance.
- Monitored infrastructure using Grafana dashboards and AWS CloudWatch alerts to detect and resolve issues proactively.
- Worked closely with IT operations to ensure the stability and reliability of production environments, reducing downtime by 50%.

## PROJECTS

AWS 3-Tier Architecture Deployment | [Link](#) Jan 13 - Present

- Designed and deployed a scalable 3-tier AWS architecture using VPC, EC2, Multi-AZ RDS, and S3 to ensure high availability and fault tolerance.
- Configured Route 53 and AWS Certificate Manager for DNS management and SSL security, optimizing system performance and reliability.

End-to-End DevOps Pipeline for Zomato Application | [Link](#) Dec10 - Present

- Integrated a CI/CD pipeline with Jenkins and ArgoCD, integrating SonarQube, OWASP, and Trivy for automated security and quality checks, ensuring 99% deployment success across 15+ containerized apps on Docker and EKS.
- Built monitoring with Prometheus, Grafana & Node Exporter, improving performance insights by 40%.

Cloud-Native Monitoring App | Flask, Docker, Boto3, EKS | [Link](#) Nov5 - present

- Developed a Flask-based monitoring app for CPU and memory usage.
- Containerized using Docker and deployed to AWS EKS via ECR.
- Automated AWS resource provisioning with Boto3 and optimized scaling.

## TECHNICAL SKILLS

- |                                    |   |
|------------------------------------|---|
| • Cloud Services                   | : AWS (EC2, S3, VPC, ECS, EKS, RDS, IAM, Cloudfront ) |
| • Containerization & Orchestration | : Docker, Kubernetes                                  |
| • CI/CD & Automation               | : Jenkins, GitHub Actions, Bash, Python, Ansible      |
| • Monitoring & Observability       | : Grafana, CloudWatch, Prometheus                     |
| • Code Quality & Version Control   | : SonarQube, Git, GitHub                              |
| • Security & Compliance            | : Trivy, OWASP  |
| • Databases                        | : SQL, MongoDB  |
| • Operating System                 | : RHEL, UBUNTU, CENTOS                                |

## EDUCATION

B.Tech in Computer Science Aug 2021 - May 2025

Rajdhani Engineering College, Jaipur | CGPA - 7.89

Diploma in Computer Science Sep 2018 - Sep 2021

Shekhawati Group of Institutions, Sikar | CGPA - 7.45

## CERTIFICATIONS

- AWS Solution Architect Associate
- AWS Cloud Practitioner