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**