

Dewansh Mishra

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PROFESSIONAL SUMMARY

Results-driven DevOps Engineer with **1 year of hands-on production experience** architecting AWS cloud infrastructure, building robust CI/CD pipelines, and enforcing DevSecOps standards for SaaS and healthcare platforms. Proven track record of optimizing Docker build times, managing multi-region Kubernetes (EKS) deployments, and designing highly secure, HIPAA-compliant logging architectures. AWS Certified Cloud Practitioner with a strong automation mindset and practical expertise in Infrastructure as Code (IaC), container orchestration, and security automation.

TECHNICAL SKILLS

Cloud Platforms: AWS (EKS, ECR, EC2, S3, VPC, ALB, IAM, CloudWatch, Kinesis Firehose, Athena, Global Accelerator, KMS, Glacier)

CI/CD & Version Control: GitHub Actions, Jenkins, GitOps, Git, Multi-arch Builds (ARM64/x86)

Containers & Orchestration: Docker, Docker Compose, Docker Buildx, Kubernetes (AWS EKS), Istio Service Mesh

Infrastructure as Code (IaC): Terraform (HCL), OpenTofu, Ansible

Scripting & Languages: Bash, Python, YAML

Monitoring & Logging: AWS CloudWatch, Kinesis Firehose, AWS Athena

Security & DevSecOps: Trivy, SonarQube, OWASP ZAP, OSV Scanner, Gitleaks

EXPERIENCE

Associate DevOps Engineer | Mindbrowser Inc. | Pune, India

June 2025 – Present

- Automated a hybrid ARM64/x86 Docker build strategy using **GitHub Actions**, reducing image build times by **67%** (from 24+ minutes to ~8 minutes) for a NestJS monorepo deployed on AWS Graviton EC2, accelerating deployment cycles.
- Designed and deployed a **HIPAA-compliant** audit logging architecture using AWS CloudWatch, Kinesis Firehose, and S3 Glacier Deep Archive with KMS encryption, meeting full healthcare regulatory compliance.
- Implemented a comprehensive **5-tool DevSecOps scanning pipeline** (Trivy, SonarQube, Gitleaks, OWASP ZAP, OSV Scanner) into CI/CD workflows, featuring a toggle flag for automated scan control without modifying pipeline code.
- Managed a **multi-region EKS + Istio** production stack across 3 AWS regions with AWS Global Accelerator, improving global request latency and enabling automatic regional failover.
- Led **Jenkins** → **GitHub Actions migration** across multiple client projects, standardizing CI/CD workflows and significantly improving pipeline maintainability and execution speed.

PROJECTS

ARM64 Docker Build Optimization | *GitHub Actions, Docker Buildx, AWS ECR, NestJS, AWS Graviton*

- Engineered an optimized CI/CD pipeline eliminating QEMU emulation overhead by natively compiling TypeScript on x86 runners and using `package-lock.json` hashing for efficient `node_modules` caching.
- Configured `docker buildx build --push` to push multi-arch images directly to AWS ECR, replacing the broken `--load` approach that caused `exec format error` failures on ARM64 targets.
- Unblocked continuous deployments for Java/Spring Boot and NestJS microservices on Graviton instances by fully resolving cross-platform execution format failures.

HIPAA-Compliant Audit Log Pipeline | *AWS CloudWatch, Kinesis Firehose, S3, Glacier, Athena, KMS, Glue*

- Architected an automated, end-to-end log retention pipeline — CloudWatch Logs → Kinesis Firehose → S3 → Glacier Deep Archive — with KMS encryption at every stage, satisfying HIPAA safeguards for a healthcare client.
- Enabled SQL-based forensic log querying by integrating AWS Athena with the AWS Glue data catalog, eliminating manual log retrieval and reducing audit response time.
- Restored uninterrupted DevSecOps security scans by provisioning SSL/TLS via Certbot and removing a CloudFront layer causing SonarQube HTTP/2 stream reset errors.

Multi-Region EKS & Istio Production Stack | *AWS EKS, Istio, Global Accelerator, ALB, Kubernetes, Terraform*

- Configured production-grade Kubernetes on AWS EKS with Istio service mesh for traffic management, mTLS enforcement, and microservice observability across 3 global AWS regions.
- Deployed AWS Global Accelerator (us-east-1, ap-northeast-1, ap-east-1) for low-latency global routing and sub-second automatic regional failover.

EDUCATION

PG Diploma in IT Infrastructure, Systems & Security (DITISS) | C-DAC, IACSD | Pune, India

2024 – 2025

Master of Computer Applications (MCA) | Madhav Institute of Technology & Science | Gwalior, India

2021 – 2023

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-Co2) | Amazon Web Services

2025

Certified Cloud Computing | NPTEL (IIT Kharagpur)

2023