DEEP BIJWE

Cloud DevOps Engineer | AWS | Docker | Kubernetes | Terraform | Jenkins | DevSecOps

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GitHub | Portfolio

PROFESSIONAL SUMMARY

Cloud DevOps Engineer with hands-on experience in AWS cloud infrastructure, Linux system administration, containerization, Kubernetes orchestration, CI/CD automation, Infrastructure as Code (IaC), and DevSecOps practices. Experience working with AWS EKS, EC2, S3, VPC, ALB, RDS, CloudWatch, CloudFront, and Route 53, along with Docker, Jenkins, Terraform, SonarQube, Trivy, Datadog. Experienced in provisioning cloud infrastructure with Terraform, building Jenkins CI/CD pipelines, containerizing applications, deploying workloads to Kubernetes, configuring AWS networking, and implementing monitoring and security practices. Completed Cloud DevOps Engineering training at Cloudblitz and hold multiple AWS learning badges.

PROFESSIONAL EXPERIENCE

Cloud DevOps Intern | *Hisan Labs Private Limited, Pune, India.* ***Nov 2025 – Present***

- Built and deployed a three-tier web application on AWS EKS (React frontend, Spring Boot backend, RDS/MySQL database), handling infrastructure setup in Terraform and deployment automation in Jenkins, with Route 53 for DNS and CloudFront for content delivery.
- Integrated GitHub Webhooks with Jenkins to auto-trigger the CI/CD pipeline on code changes — build, Docker image creation, Trivy scanning, and Kubernetes deployment — cutting manual intervention by around 50% while keeping PR approval as a manual checkpoint.
- Built Jenkins CI/CD pipelines for a microservices backend and frontend, running SonarQube code analysis, OWASP Dependency checks, Docker builds, Trivy vulnerability scans, and pushing images to ECR Private registry; deployed backend services to AWS EKS (with a separate MongoDB database per service) using Helm-managed NGINX Ingress, ConfigMaps, and Secrets, and automated frontend delivery to AWS S3.
- Provisioned AWS infrastructure (EC2, EKS, VPCs, S3 remote-state backends) using Terraform, building reusable modules and workspaces that brought infrastructure setup time down by around 30%.
- Designed VPC architecture for team projects, including subnets, route tables, Internet Gateways, NAT Gateways, VPC Peering, and VPC Endpoints.
- Set up and managed MySQL databases on AWS RDS for a three-tier web app, using Terraform to create them, and checked data with SQL queries (SELECT, WHERE, JOIN) to confirm the app was saving and reading records correctly.
- Configured CloudWatch alarms to catch CPU spikes, with SNS email alerts and Datadog monitoring layered on top, cutting system risk by about 50%.
- Managed IAM users, roles, and policies across accounts on a least-privilege basis, alongside secrets management for pipeline and application credentials.
- Handled storage across the stack — EBS volumes, EFS shared storage, and ECR for container images, plus S3 with bucket policies and lifecycle rules.
- Worked hands-on with a second cloud provider (Azure) — hosted a static website on Blob Storage, and created an Azure user with a scoped IAM role via Microsoft Entra ID, verifying access by signing in as that user.
- Familiar with the fundamentals of GitHub Actions for CI/CD, Prometheus and Grafana for monitoring and visualization, PostgreSQL for relational databases, and Jira/Postman for project tracking and API testing, along with basic Bash and Python scripting for automation tasks.

TECHNICAL SKILLS

AWS Services: EC2, S3, IAM, VPC, Subnets, Route Tables, Internet Gateway, NAT Gateway, Security Groups, Application LoadBalancer (ALB), EBS, EFS, ECR, EKS, Route 53, CloudWatch, RDS (MySQL), CloudFront

Databases: MySQL on RDS, PostgreSQL, MongoDB Atlas; SQL fundamentals

Azure Services: Azure Virtual Machines (VM), Virtual Network (VNet), Resource Groups, Azure Blob Storage, Azure Storage Account, Microsoft Entra ID

CI/CD & DevOps: Jenkins (CI/CD Pipelines), GitHub Actions, Docker, Docker Hub, Kubernetes, Webhooks, Maven Build.

Containers & Orchestration: Docker, Docker Compose, Multi-stage Dockerfiles, Kubernetes, Helm (Deployments, Services, Namespaces, ConfigMaps, Secrets, PV/PVC, Ingress, ReplicaSets, StatefulSet)

Infrastructure as Code & Configuration: Terraform, modules, variables, outputs, remote-state concepts, workspaces, YAML, Loops, reusable environment configuration

Observability & Operations: AWS CloudWatch (metrics, alarms, logs), Datadog, Prometheus, Grafana

DevSecOps & Code Quality: Trivy (image scanning), SonarQube fundamentals, OWASP Dependency check, IAM least privilege, Secrets management

Operating Systems & Scripting: Linux, Bash/Shell scripting, Python fundamentals, Nginx, PostgreSQL, REST APIs, Jira, Postman, VS Code, AI-assisted YAML and pipeline troubleshooting

DEVOPS PROJECTS

B2B Medical ERP: DevSecOps Pipeline on AWS EKS | GitHub *AWS, Docker, Kubernetes, S3, Terraform, SonarQube, Trivy, OWASP, Jenkins*

- Built an end-to-end CI/CD pipeline using Jenkins, Docker, and Git, automating testing, building, and deployment for a Spring Boot microservices application.
- Provisioned AWS infrastructure, including EKS, ECR, S3, and IAM, using Terraform, with a manual approval step before applying changes.
- Integrated SonarQube for code quality analysis, OWASP Dependency Check for vulnerability scanning, and Trivy for container and filesystem security scans.
- Deployed containerized microservices to AWS EKS using Helm and Kubernetes, with NGINX Ingress for routing and horizontal pod autoscaling (HPA) for traffic management.
- Used MongoDB Atlas as the database for each service, connected GitHub webhooks for automatic build triggers, and managed the full stack across React, Spring Boot, and AWS services.

Flight Reservation System — CI/CD Automation with Jenkins on AWS EKS | GitHub *AWS, Terraform, EKS, RDS, S3, Docker, Kubernetes, React, Spring Boot*

- Provisioned AWS infrastructure using Terraform: EKS cluster, RDS (MySQL), S3 buckets, VPC, security groups, and IAM roles for least-privilege access.
- Containerized Spring Boot backend with Docker using multi-stage Dockerfiles; pushed images to Docker Hub and deployed on Kubernetes (EKS) with Deployments, Services, and ConfigMaps.
- Hosted React frontend on S3 with static website hosting and CloudFront CDN for low-latency global delivery.
- Automated the end-to-end build-to-deploy pipeline using two Jenkins pipelines: Backend pipeline (build → Docker image → push to Docker Hub → deploy to EKS) and Frontend pipeline (build → sync to S3)
- Configured Kubernetes manifests for backend Deployments, ClusterIP/LoadBalancer Services, and environment variable injection using ConfigMaps and Secrets

TRAINING BADGES & CERTIFICATION

- AWS Certified Cloud Practitioner 2025 (CLF-C02) — Udemy Course by Chetan Agrawal (Dec 2025) Udemy
- AWS Cloud Quest: Generative AI Practitioner — Training Badge (Jan 2026–Present) Credly
- AWS Cloud Quest: Cloud Practitioner — Training Badge (Apr 2026–Present) Credly
- AWS Educate Machine Learning Foundations — Training Badge (Dec 2025–Present) Credly
- Cloud DevOps Engineering Course — Cloudblitz | Powered by Greamio (Jan 2025 – June 2025)

EDUCATION

B.E. in Electronics and Telecommunication Engineering ***Nov 2022 – Jun 2025***

Sant Gadge Baba Amravati University, Amravati, Maharashtra

Relevant: Cloud Computing, IoT, Embedded Systems, Networking