RITURAJ DEBNATH

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PROFESSIONAL SUMMARY

Passionate cloud-native enthusiast skilled in AWS, Kubernetes, Terraform, Docker, Ansible, Helm, and GitHub Ac- tions. Hands-on with CI/CD and observability (Prometheus Grafana) and focused on delivering scalable, well-automated systems.

EDUCATION : B.Tech in Computer & Science Engineering (IoT & Cyber Security incl. Blockchain Technology)

Future Institute of Technology   2021–2025

Skills

CloudPlatforms	AWS
InfrastructureasCode	Terraform
ConfigurationManagement	Ansible
Containers&Orchestration	Docker,Kubernetes,Helm
CI/CD	Github Actions, Bitbucket pipelines, ArgoCD
Programming	Python, Bash Script
Monitoring	Prometheus, Grafana
VersionControl	Git,Github

PROJECT SUMMARY

Codelogicx Kolkata	**Junior Devops Intern**	**July 2025 - Nov 2025**

- Live microservice based Website Migration & Cloud Cost Optimization (Sept 2025 – Nov 2025)

  Modernized legacy EC2-based architecture → 30% cost reduction, faster content delivery, and improved high availability for 20k+ monthly users. Re-architected workload from a single t2.large EC2 instance to containerized microservices using Amazon ECS, improving backend scalability and deployment flexibility. Implemented CDN-based static content hosting (via CloudFront + S3) which cut static asset latency by ~60 % and page-load times by up to 2.5x, significantly enhancing user experience. Developed & optimized Bitbucket CI/CD pipelines across Dev, Stage, and Prod for automated ECS deployments integrated with S3, RDS, and ECR. Monitored ECS cluster performance during peak traffic ensuring zero downtime during rollout and smooth production stability.

- ML Model Deployment & Automated Testing Infrastructure (Aug 2025 – Sept 2025)

  Assessed ML compute needs and recommended optimal GPU-based EC2 instances to avoid over-provisioning and ensure performance. Built CI/CD pipelines to deploy updated ML model code automatically to GPU instances, accelerating testing cycles and reducing manual deployment time for developers. Monitored system metrics (CPU/GPU utilization, memory, network I/O) to validate optimal resource usage and forecast monthly spend for cost-effective ML operations. Deployed and configured a Playwright automation testing suite on EC2 to validate web application functionality with continuous test execution.. Implemented CI/CD automation for the test suite, reducing manual validation effort and enabling faster QA feedback on UI changes. Optimized EC2 instance sizing to eliminate unused compute hours and reduce continuous automation testing cost by an estimated 20–25%.

- Multi Microservice based Ecommerce DevOps Implementation

  Designed and deployed a scalable, highly available microservice architecture on Amazon EKS. Automated infrastructure provisioning of EKS, VPC, and networking with Terraform. Implemented GitOps-based CI/CD using GitHub Actions and ArgoCD. Containerized services with Docker, managed via Kubernetes and Helm. Configured ALB Ingress with TLS and applied IAM-based security and access controls.

CERTIFICATIONS & LICENSES

AWS Certified Solutions Architect Associate

AWS Certified Developer Associate

AWS Certified Sysops Administrator Associate

AWS Certified AI Practitioner

Kodekloud Kubernetes for Beginners

Career Essentials in System Administration