RATNADWEEP GHOSH

DevOps Engineer – AWS Cloud & Infrastructure

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EDUCATION

Regent Education and Research Foundation   **August 2013 – June 2017**
*Degree Name - **B.Tech - 8.4 DGPA***   *Kolkata, India*

WORK EXPERIENCE

Genpact   **August 2025 – Present**
DevOps Engineer   *Kolkata, India*
- Designed and deployed **AWS EMR-based data environments (Dev/Stage/Prod)** using **CloudFormation,** automating S3, IAM, and Secrets Manager configurations.
- Integrated **Airflow** for orchestration of EMR jobs, connecting to dedicated metastore databases and environment-specific YAML configurations.
- Collaborated on **GitOps workflows** by creating new repositories and branches for comm-ops and ingestion pipelines, ensuring controlled code promotion across environments.
- Expanded DevOps expertise into **DataOps**, optimizing infrastructure reliability, automation, and cost efficiency within AWS.

Tata Consultancy Services   **March 2022 – August 2025**
DevOps Engineer   *Kolkata, India*
- Supporting and maintaining CI/CD pipelines built on **Jenkins**, ensuring smooth infrastructure provisioning and application deployment in **AWS**.
- Troubleshoot pipeline failures, including Terraform state lock issues in DynamoDB, pipeline timeouts, or configuration mismatches.
- Monitor and maintain Jenkins slave EC2 nodes, ensuring build environments are healthy and available for scheduled deployments.
- Manage source code and infrastructure-as-code repositories using **GitLab/GitHub**, ensuring branch management and version control best practices.
- Gained hands-on experience in **Terraform and Terragrunt**-based infrastructure by proactively exploring backend configurations (S3 & DynamoDB), workspace usage, and DRY principles in live environments.
- Worked on Docker-based execution of Terraform inside Jenkins pipelines, involving custom **Dockerfiles**, **image tagging**, and **pushing to AWS ECR**.
- Assisted in simplifying multi-account AWS infrastructure provisioning using Terragrunt modules, improving consistency and scalability.
- Used **Ansible** and **YAML** to deploy application packages and services across distributed systems.
- Exposure to **AWS EKS** and **Kubernetes** concepts through support activities and review of deployment and service manifest files.
- Took initiative to study the entire CI/CD stack—GitLab → Docker → Jenkins → Terraform—to better understand, document, and support daily operations.

Cognizant Technology Solutions   **October 2018 – March 2022**
Command Center & Infrastructure Support Engineer   *Kolkata, India*
- Monitored infrastructure health using Spectrum, analyzing alerts and creating ServiceNow incidents.
- Coordinated with multiple L2/L3 support teams (Windows, Linux, Storage, DB) to resolve issues.
- Gained practical experience with Oracle DB refreshes, basic server troubleshooting, and infra hygiene checks.
- Developed foundational knowledge of Linux commands, SQL queries, and batch/shell scripting.

TECHNICAL SKILLS

DevOps Tools: GitHub, Jenkins, Terraform, Ansible, Docker, Kubernetes
Cloud Exposure: AWS (EC2, S3, IAM, VPC, DynamoDB)
Containerization: Docker, AWS ECR, AWS EKS
CI/CD: Jenkins Pipelines
IAC: Terraform, Terragrunt, Ansible
Version Control: Git, GitHub, GitLab
Scripting: Shell (Bash)
Documentation & Tracking: Jira, Confluence

CERTIFICATIONS

- GitHub Foundations
- AWS Certified Solutions Architect Associate