

ADITYA KUMAR PRASAD

Dhanbad, Jharkhand

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LinkedIn

Github

🌐 Portfolio

Education

Gandhi National College (Affiliated to Utkal University)
Bachelor of Computer Applications (BCA)

Sep 2023 – Jul 2026
Bhubaneswar, Odisha

Experience

Pearl Thoughts Pvt. Ltd

Dec 2025 – Jan 2026

DevOps Engineer Intern (Winter Cohort)

Remote

- Spearheaded the automation of cloud infrastructure, deploying scalable **Strapi applications** on **AWS ECS Fargate**.
- Managed infrastructure provisioning using **Terraform**, ensuring consistent environments across development and production.
- Established a robust **CI/CD workflow** with **GitHub Actions** to streamline Docker container builds and release cycles.
- Ensured high availability during updates by executing **Blue/Green deployment strategies** via **AWS CodeDeploy**.
- Configured proactive monitoring and logging using **AWS CloudWatch** to maintain optimal system performance.

Bharat Coking Coal Limited

Jun 2025 – Jul 2025

DevOps Intern

Dhanbad, Jharkhand

- Built and deployed a **Django-based task management system** on an Ubuntu **AWS EC2** instance.
- Migrated legacy applications from local servers to **Docker containerized environments**, reducing deployment time by **40%**.
- Automated deployment workflows using **Jenkins CI/CD pipelines** to integrate build, test, and deployment stages.
- Applied **Linux system administration** skills for secure server setup, firewall configuration, and service monitoring.

Projects

Automated Blue/Green Deployment of Strapi CMS

DevOps Deployment • AWS • IaC

- Architected a cloud-native solution orchestrating Strapi CMS, PostgreSQL, and Nginx reverse proxy using **Docker**.
- Engineered a fully automated network topology (VPC, ALB, Security Groups) utilizing **Terraform modules**.
- Designed a seamless traffic-shifting mechanism using **Application Load Balancers (ALB)** and CodeDeploy to eliminate downtime.
- Implemented **AWS Fargate Spot** instances to optimize compute costs while maintaining scalable performance metrics.
- Created automated pipelines to push container images to **Amazon ECR**, triggering immediate cluster updates.

Django To-Do List Application

AWS • Docker • CI/CD

- Developed a full-stack Django task management application supporting CRUD operations and user tracking.
- Implemented secure authentication (JWT) and real-time logging to ensure data integrity and user accountability.
- Deployed the application on **AWS EC2 (Ubuntu)** using Docker Compose for reproducible builds and scalability.
- Integrated the project into **CI/CD pipelines** to automate testing and deployment workflows.

Technical Skills

- **Programming & Scripting:** Python, C/C++, JavaScript, SQL (MySQL/PostgreSQL), Bash
- **Cloud & DevOps:** AWS (EC2, ECS Fargate & Spot, ECR, ALB, CloudWatch, CodeDeploy, IAM), Docker, Terraform, GitHub Actions, Jenkins, CI/CD
- **Systems & Tools:** Linux/Unix, Nginx (Reverse Proxy), Strapi CMS, Git/GitHub, HTTP/HTTPS

Certifications & Coursework

- AWS Certifications — Basics, Security, Compute, Storage (Amazon)