

# Aditya Kumar Prasad

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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

*DevOps Engineer Intern (Winter Cohort)*

Dec 2025 – Current

*Remote*

- Collaborated directly with the Founder and engineering team in technical review meetings to align infrastructure strategy with product requirements.
- Engineered containerized application deployments on AWS ECS Fargate using Docker.
- Defined Infrastructure as Code using Terraform to standardize environment provisioning.
- Designed CI/CD automation workflows using GitHub Actions to streamline build and deployment lifecycle.
- Executed Blue/Green deployment strategy via AWS CodeDeploy ensuring zero-downtime releases.
- Implemented centralized logging and monitoring using AWS CloudWatch.

### Criminal Investigation Department

*Cyber Security Intern*

Jul 2025 – Aug 2025

*Ranchi, Jharkhand*

- Performed system and network log analysis to support incident investigation workflows.
- Examined network traffic (TCP/IP, DNS, HTTP/HTTPS) for anomaly detection.
- Documented escalation procedures and incident response processes.
- Strengthened troubleshooting and analytical reasoning capabilities.

### Bharat Coking Coal Limited

*DevOps Engineer Intern*

Jun 2025 – Jul 2025

*Dhanbad, Jharkhand*

- Participated in meetings with IT supervisors to gather infrastructure and deployment requirements.
- Deployed a cloud-based attendance management system on Ubuntu AWS EC2.
- Reduced deployment time by 40% by migrating applications into Docker containers.
- Built Jenkins CI/CD pipelines to automate testing and deployment stages.
- Configured Linux server environment, firewall policies, and service monitoring controls.

## PROJECTS

### Automated Blue/Green Deployment of Strapi CMS

AWS — Terraform — Docker

- Architected container-based CMS deployment using Docker, ECS Fargate, and Application Load Balancer.
- Provisioned AWS networking components (VPC, subnets, security groups) using Terraform.
- Configured traffic shifting deployment strategy using AWS CodeDeploy.
- Automated Docker image lifecycle with GitHub Actions and Amazon ECR.
- Monitored performance metrics using CloudWatch dashboards.

### CloudForge – Automated Infrastructure Provisioning Framework

AWS — Terraform — Docker — CI/CD

- Built modular Terraform modules for reusable AWS infrastructure provisioning.
- Structured secure VPC architecture including IAM role configuration and access control.
- Enabled container portability through Docker-based packaging standards.
- Integrated CI/CD validation workflows to enforce infrastructure consistency.
- Applied least-privilege IAM policies to strengthen security posture.

### Event-Driven Reporting Pipeline

AWS — Lambda — EventBridge — S3 — Terraform

- Developed serverless event-driven processing system using AWS Lambda and EventBridge.
- Automated scheduled report generation via EventBridge rules.
- Designed structured S3 storage workflow (raw, processed, reports).
- Provisioned infrastructure resources using Terraform (Infrastructure as Code).
- Implemented monitoring and log aggregation with Amazon CloudWatch.

## TECHNICAL SKILLS

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

## CERTIFICATIONS & COURSEWORK

- AWS Certifications — Basics, Security, Compute, Storage - 