Aditya Kumar Prasad

+919162516651 / aditya22may2004@gmail.com / Linkedin / Github / Portfolio

Education

Bachelor of Computer Application
Gandhi National College,
Affiliated with [Utkal University]

Sep. 2023 – July. 2026
Bhubaneswar, Odisha.

Experience

* **DevOps Engineer Intern {Winter Cohort}**
  PearlThoughts Pvt. Ltd

  December 2025 - January 2026
  Remote

  - Automated deployment of Strapi applications on AWS EC2 and ECS Fargate using Terraform.
  - Built and maintained CI/CD pipelines with GitHub Actions for Docker image build and deployment.
  - Implemented Blue/Green deployments using AWS CodeDeploy to ensure zero-downtime releases.
  - Monitored application health using AWS CloudWatch logs and metrics.

* **DevOps Intern**
  Bharat Coking Coal Limited

  June-July 2025
  Dhanbad, Jharkhand

  - Assisted in designing and developing secure modules improving system security by 30% for cloud-based attendance management, focusing on authentication and real-time logging.
  - Collaborated with team members to implement Pipelines and automate the CI/CD processes.
  - Contributed to AI-driven UI development and deployed applications to remote AWS EC2 instances.

Technical Projects

* *Automated Blue/Green Deployment of Strapi CMS on AWS Fargate*   Source Code | DevOps Deployment, IaC

  - Containerized Architecture: Designed a robust multi-container environment using Docker, orchestrating Strapi (CMS), PostgreSQL, and Nginx as a reverse proxy on a custom user-defined network.
  - Infrastructure as Code (IaC): Provisioned end-to-end AWS infrastructure (VPC, ECS Clusters, ALB, Security Groups) entirely via Terraform, eliminating manual configuration drift.
  - Zero-Downtime Deployments: Architected a Blue/Green deployment strategy using AWS CodeDeploy and Application Load Balancers (ALB), ensuring seamless traffic shifting between target groups during updates.
  - Automated CI/CD Pipelines: Built GitHub Actions workflows to automate Docker image builds, push to Amazon ECR, and trigger Terraform deployments based on git triggers.
  - Cost & Performance Optimization: Configured AWS Fargate Spot instances to reduce compute costs and implemented CloudWatch for real-time monitoring of CPU/Memory metrics.

* *Django To-do list Application*   Source Code | DevOps Deployment

  - Built and deployed a Django-based task management system on Ubuntu AWS EC2 instance.
  - Migrated application from local server to Docker containerized environment for reproducibility which reduced the deployment time by 40%.
  - Automated deployment workflows using Jenkins pipelines(CI/CD), integrating build, test, and deployment stages.
  - Applied Linux system administration skills for server setup, firewall configuration, and service monitoring.
  - Enhanced deployment reliability by leveraging Docker Compose for multi-service orchestration.

Technical Skills

- **Languages:** Python, C/C++, JavaScript, SQL (MySQL/PostgreSQL), Bash Scripting.
- **Cloud Platforms (AWS):** EC2, ECS Fargate & Spot, ECR, Application Load Balancer (ALB), CloudWatch, CodeDeploy, IAM.
- **DevOps & IaC:** Terraform (Infrastructure as Code), Docker, GitHub Actions, Jenkins, CI/CD Pipelines.
- **Web & Networking:** Nginx (Reverse Proxy), Strapi CMS, Git/GitHub, Linux/Unix Administration, HTTP/HTTPS protocols.

Certification

- AWS Certifications (Basics, Security, Computing, Storage) - Amazon