



# ANSHUMAN MOHAPATRA

B.Tech. - Computer Science & Engineering

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## BRIEF SUMMARY

I'm Anshuman Mohapatra, a passionate B.Tech Computer Science student at ITER, SOA University, graduating in 2026. My journey in tech started with curiosity about how applications actually work behind the scenes, which led me down the DevOps and cloud infrastructure rabbit hole. Over the past year, I've been hands-deep in building and deploying applications - from creating a secure multi-language code execution platform to orchestrating complex microservices on AWS EKS.

### Career Objective & Expertise for Software Development

While my recent focus has been heavily on DevOps and infrastructure, I believe this gives me a unique edge as a software developer. I understand the complete software lifecycle - not just writing code, but how it gets built, tested, secured, and deployed at scale. My experience with Python, Flask, JavaScript, React, and Java means I can jump into development work, but I also bring that crucial understanding of containerization, CI/CD pipelines, and cloud deployment that many developers lack.

I've built everything from Flask web applications with proper authentication and database integration to React frontends, and I've seen firsthand how poor deployment practices can break even the best code. This perspective makes me write more deployment-friendly, scalable code from the start.

### What I Bring to JTG

Honestly, I'm excited about this opportunity because it feels like the perfect bridge between where I've been exploring and where I want to grow. I can contribute immediately with my full-stack development skills, but I also bring that DevOps mindset that's becoming essential in modern software teams. I've worked with microservices architectures, understand container orchestration, and have experience with monitoring and security scanning - skills that are super valuable when building production applications.

Plus, my content creation experience (104K+ views on tech videos) shows I can communicate complex technical concepts clearly, which I think would be valuable for documentation, code reviews, and potentially helping JTG with technical content.

### Future Expectations

For myself, I'm looking to deepen my software development skills while continuing to leverage my infrastructure knowledge. I want to become that developer who not only writes great code but also understands how to make it production-ready, scalable, and maintainable. Long-term, I see myself potentially leading full-stack teams where I can bridge the gap between development and operations.

For JTG, I'm hoping to contribute to meaningful projects where I can apply both my development and deployment expertise. I'd love to help the organization adopt better DevOps practices, improve deployment pipelines, and maybe even contribute to architectural decisions. I'm particularly interested in projects involving cloud-native applications or microservices, where my background would be most valuable.

The 12-month internship duration is perfect - it gives me time to really contribute meaningfully rather than just learning the basics. I'm ready to dive deep, take ownership of projects, and hopefully become someone the team relies on for both development and deployment challenges.

## KEY EXPERTISE

Python Flask React JavaScript TypeScript Java HTML CSS Docker Kubernetes AWS Jenkins  
CI/CD Pipelines DevSecOps Microservices Architecture Infrastructure as Code Terraform GitHub Actions  
SonarQube OWASP Security Scanning Trivy MongoDB Redis GitOps ArgoCD Prometheus Grafana  
Helm Charts Nginx Load Balancing AWS EKS Container Security RESTful API Development SQLAlchemy  
Authentication Systems Multi-stage Docker Builds Kubernetes Ingress Service Mesh Automated Testing Alpine Linux  
Shell Scripting Langchain FAISS Hugging Face Puppeteer Pandas API Integration Technical Content Creation  
Video Production Audio Editing Problem Solving System Architecture Performance Optimization  
Container Orchestration Cloud Native Development Security Hardening Monitoring and Logging Database Management  
Caching Strategies Version Control Git Code Quality Analysis Deployment Automation

## EDUCATION

**Institute of Technical Education and Research, Bhubaneshwar**

2022 - 2026

B.Tech. - Computer Science & Engineering | Percentage: **65 / 100**

**St. Xavier's High School, Cuttack**

2022

12<sup>th</sup> | CBSE | Percentage: **70.60 / 100**

**DAV Public School, Cuttack**

2020

10<sup>th</sup> | CBSE | Percentage: **85.80 / 100**

## PROJECTS

### Netflix-Clone-Deploy

19 Jun, 2025 - 22 Jun, 2025

#### Key Skills:

AWS EC2

Jenkins

Docker

Docker Hub

SonarQube

Trivy

Kubernetes

Prometheus

Grafana

OWASP Dependency Check

TMDB API

React

TypeScript

Email (SMTP)

GitHub

**Project Link:** <https://github.com/Anshuman-git-code/Netflix-Clone-Deploy.git>

This project demonstrates a complete end-to-end DevOps pipeline for deploying a Netflix Clone application built with React and TypeScript. It showcases enterprise-grade automation from code commit to production deployment with comprehensive CI/CD integration, security scanning, code quality analysis, containerization, monitoring, and Kubernetes orchestration using modern cloud-native tools and GitOps practices.

### Redit-Clone-Deployment

15 Jun, 2025 - 18 Jun, 2025

#### Key Skills:

AWS EC2

AWS EKS

Terraform

Jenkins

Docker

Docker Hub

SonarQube

Trivy

Kubernetes (EKS)

ArgoCD

Prometheus

Grafana

Email (SMTP)

GitHub

**Project Link:** <https://github.com/Anshuman-git-code/Redit-Clone-Deployment.git>

This project demonstrates a complete end-to-end DevOps pipeline for deploying a Reddit Clone application using modern cloud-native tools and GitOps practices. It showcases enterprise-grade automation from code commit to production deployment with comprehensive monitoring and security.

### Infra-Code-To-Prod-k8s

11 Jun, 2025 - 14 Jun, 2025

**Team Size:** 1

#### Key Skills:

Terraform

AWS EC2

AWS EKS

Jenkins

SonarQube

JFrog Artifactory

Docker

Kubernetes (AWS EKS)

Trivy

**Project Link:** <https://github.com/Anshuman-git-code/Infra-Code-To-Prod-k8s.git>

This project demonstrates a comprehensive CI/CD pipeline using Terraform, Jenkins, SonarQube, JFrog Artifactory, Docker, and AWS EKS. The pipeline automates the entire software delivery process from code commit to production deployment.

### Registration App Jenkins Maven Deploy

06 Jun, 2025 - 09 Jun, 2025

**Team Size:** 1

#### Key Skills:

Jenkins

Maven

Docker

AWS EC2

Amazon Linux

Tomcat

**Project Link:** [https://github.com/Anshuman-git-code/registration-app-Jenkins\\_Maven\\_Deploy.git](https://github.com/Anshuman-git-code/registration-app-Jenkins_Maven_Deploy.git)

This project demonstrates the implementation of a complete CI/CD pipeline using Jenkins and Docker on AWS infrastructure. The setup automates the build, test, and deployment process for applications using containerization.

### Jenkins Kubernetes Orchestrator

02 Jun, 2025 - 05 Jun, 2025

**Team Size:** 1

#### Key Skills:

Docker

Jenkins

Maven

Trivy

Kubernetes (EKS)

SonarQube

ArgoCD

Tomcat

**Project Link:** <https://github.com/Anshuman-git-code/Jenkins-Kubernetes-Orchestrator.git>

End-to-end CI/CD pipeline implementation using Jenkins, SonarQube, Docker, and Kubernetes (EKS) with GitOps methodology via ArgoCD. Features automated build, test, security scanning, and deployment of a Java web application with infrastructure as code principles.

### Wanderlust MERN Application Kubernetes Deployment

30 May, 2025 - 01 Jun, 2025

**Team Size:** 1

#### Key Skills:

Kubernetes

Docker

MongoDB

Redis

Node.js

React

AWS EC2

**Project Link:** <https://github.com/Anshuman-git-code/wanderlust-MERN-k8s-deployment.git>

Deployed a microservices travel platform on Kubernetes using kubeadm with master-worker architecture. Implemented namespace isolation, persistent storage, and proper service discovery. Created custom Docker images with environment configurations and deployed on AWS EC2 with NodePort exposure.

Automated Voting App Deployment with Argo CD

20 May, 2025 - 29 May, 2025

**Key Skills:** AWS EC2   Kubernetes   Kind   Argo CD   GitOps   CI/CD

**Project Link:** <https://github.com/Anshuman-git-code/k8s-kind-voting-app-on-Kubernetes-With-ArgoCD.git>

Led the deployment of scalable applications on AWS EC2 using Kubernetes and Argo CD for streamlined management and continuous integration. Orchestrated deployments via Kubernetes dashboard, ensuring efficient resource utilisation and seamless scaling.

Full Stack Chat Application Deployment

27 Apr, 2025 - 30 Apr, 2025

**Key Skills:** DevOps   Cloud   CI/CD   Kubernetes

**Project Link:** [https://github.com/Anshuman-git-code/full-stack\\_chatApp.git](https://github.com/Anshuman-git-code/full-stack_chatApp.git)

As part of further improving the scalability and automation of the project, I've contributed the following features to this repository:CI/CD Pipelines – Used GitHub Actions to automate testing, build, and deployment. Kubernetes Manifests – Added K8s configs for cloud deployment on platforms like AWS.

Multi-Stage Dockerized Web Scraper

18 Apr, 2025 - 21 Apr, 2025

**Team Size:** 1

**Key Skills:** Docker   Node.js   Puppeteer   Python   Flask   Alpine Linux

**Project Link:** <https://github.com/Anshuman-git-code/multi-stage-puppeteer-flask-scraper.git>

A multi-stage Dockerized web scraper built with Puppeteer (Node.js) and Flask (Python). Scrapes dynamic websites and serves extracted content via a lightweight REST API. Ideal for demonstrating DevOps practices like multi-stage builds and container optimization.

Kubernetes Containerized Code Execution Platform

03 Mar, 2025 - 16 Apr, 2025

**Team Size:** 1

**Key Skills:** Python   Flask   React   Docker   Kubernetes   Nginx

**Project Link:** <https://github.com/Anshuman-git-code/Execution-Containerized-k8s.git>

This application is a secure, containerized code execution platform built with Kubernetes that allows users to write and execute code in multiple programming languages (Python, JavaScript, C, and C++) through a web interface. The platform is designed with robust security measures to prevent resource abuse while providing a seamless coding experien

AI-Powered Chatbot

14 Feb, 2025 - 27 Feb, 2025

**Team Size:** 1

**Key Skills:** Python   Flask   Langchain   Hugging Face   FAISS   LLMs

**Project Link:** [https://github.com/Anshuman-git-code/Langchain\\_Flask\\_Bot.git](https://github.com/Anshuman-git-code/Langchain_Flask_Bot.git)

Flask-Langchain-Bot is a Flask-based chatbot using Langchain, Hugging Face models, and FAISS for efficient retrieval. It's leveraging vector embeddings for intelligent responses. Ideal for QA systems and AI-driven chat applications. Easily deployable with ngrok for public access.

Real-time Cryptocurrency Data Integration

03 Feb, 2025 - 12 Feb, 2025

**Team Size:** 1

**Key Skills:** Python   REST API   Pandas   CoinGecko API   Data Automation

**Project Link:** <https://github.com/Anshuman-git-code/crypto-data-fetching.git>

Crypto Data Fetching & Analysis Fetches live data for the top 50 cryptos using CoinGecko API, analyzes trends, and updates a Google Sheets dashboard every 5 minutes. Tracks top 5 cryptos, avg price & 24h gainers/losers. 📺 Live Data:[https://docs.google.com/spreadsheets/d/1pR-N3vePxGqDDUe4\\_RAcJtJcpThnC\\_aMXmVwhlUX2-k/edit?usp=share\\_link](https://docs.google.com/spreadsheets/d/1pR-N3vePxGqDDUe4_RAcJtJcpThnC_aMXmVwhlUX2-k/edit?usp=share_link)

Flask Blog Application

01 Oct, 2024 - 31 Dec, 2024

**Team Size:** 1

**Key Skills:** Python   Flask   SQLAlchemy   Flask-WTF   Flask-Bcrypt   Jinja2

**Project Link:** [https://github.com/Anshuman-git-code/Your\\_Blog.git](https://github.com/Anshuman-git-code/Your_Blog.git)

ourBlog is a simple Flask-based web application that allows users to create accounts, post blogs, and view other users' blogs and profiles. It enables users to register, log in, and share their thoughts through blog posts. The platform also features an interactive feed where users can explore blogs from other members.

E-Commerce-Three-Tier-Application-EKS-Deployment

26 Jun, 2025

**Team Size:** 1

Key Skills:

- AWS EKS
- eksctl
- kubectl
- AWS CLI
- IAM OIDC
- AWS ALB Controller
- EBS CSI Driver
- Helm
- Kubernetes
- Microservices
- MongoDB
- MySQL
- Redis
- RabbitMQ
- AWS Load Balancer

**Project Link:** <https://github.com/Anshuman-git-code/E-Commerce-Three-Tier-Application-Deploy-on-AWS-EKS.git>

This project demonstrates a complete end-to-end deployment of a microservices-based E-Commerce Three-Tier application (Stan's Robot Shop) on Amazon EKS (Elastic Kubernetes Service). It showcases enterprise-grade cloud-native architecture following Kubernetes best practices with AWS managed services integration, comprehensive microservices orchestration, and production-ready infrastructure automation using modern container orchestration and service mesh technologies.

ACHIEVEMENTS

- Technical Excellence: Deployed production-grade DevSecOps pipelines integrating Jenkins, SonarQube, and Kubernetes with automated security scanning Architected and deployed microservices-based e-commerce platform on AWS EKS with 11 interconnected service
- Performance Optimization: Achieved 70% Docker image size reduction and 30% faster container startup through multi-stage builds and Alpine optimization Implemented GitOps workflows resulting in 60% improved deployment efficiency and 99.9% uptime
- Development Contributions: Maintained 350+ GitHub contributions with consistent 20-day coding streak, demonstrating sustained technical engagement Created comprehensive full-stack applications including authentication systems, RESTful APIs, and responsiv
- Content Creation Impact: Generated 104K+ views on technical content, showcasing ability to communicate complex DevOps and cloud concepts effectively Improved audio production quality by 95% through advanced editing techniques
- Academic-Industry Bridge: Successfully balanced rigorous B.Tech coursework while delivering enterprise-level projects using modern cloud-native technologies Demonstrated proficiency across multiple programming languages: TypeScript (39%), Python, JavaScr
- Recognition: Earned multiple GitHub achievement badges including MultiLanguage, Hyper Committer, and Repository Creator Built portfolio of 10+ production-ready projects spanning DevOps, AI integration, and full-stack development

CO-CURRICULAR ACTIVITIES

- Content Creation, fitness and health

PERSONAL INTERESTS / HOBBIES

- Video Production, Content Creation, Travel, Fitness, Reading Self improvement Book

PERSONAL DETAILS

**Gender:** Male

**Marital Status:** Single

**Current Address:** CDA, Sector - 7, Cuttack, Cuttack, Odisha, India - 753014

**Email:** anshuman.mohapatra04@gmail.com

**Date of Birth:** 06 Jun, 2004

**Known Languages:** English, Odia, Hindi

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