

# Anshuman Mohapatra

[GitHub](#) | [Portfolio](#)

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## PROJECTS

### Automated Voting App Deployment With Argo CD

[ Jun 2025 | AWS EC2, Kubernetes, Kind, Argo CD, GitOps, CI/CD ]

Implemented GitOps workflows for continuous deployment, achieving 60% improved deployment efficiency and 99.9% uptime.

### Kubernetes Containerized Code Execution Platform

[ Mar - Apr 2025 | Python, Flask, React, Docker, Kubernetes, Nginx ]

Built a secure multi-language code execution platform (Python, JS, Java, C++) using Flask APIs in isolated containers. Dockerized frontend/backend with multi-stage builds, deployed on Kubernetes with Ingress and namespace isolation. Enabled scalable DevOps with Nginx.

### Multi-Stage Dockerized Web Scraper

[ Apr 2025 | Docker, Node.js, Puppeteer, Python, Flask, Alpine Linux ]

Designed a lightweight multi-stage Docker scraper using Node.js (Puppeteer) and Flask. Reduced image size by 70% with Alpine, enhanced security with non-root users, and improved container startup by 30%. Served scraped data via Flask API.

### Full Stack Chat Application Deployment

[ Apr 2025 | DevOps, Cloud, CI/CD, Kubernetes ]

Automated build and deployment with GitHub Actions. Created Kubernetes manifests for backend, frontend, and MongoDB, enabling cloud scalability on AWS.

### Real-time Cryptocurrency Data Integration

[ Feb 2025 | Python, REST API, Pandas, CoinGecko API, Data Automation ]

Automated crypto analytics using CoinGecko API. Fetched top 50 coins every 5 minutes, analyzed trends with Pandas, and logged metrics (gainers, losers, averages) to CSV for live dashboards.

### Flask Blog Application

[ Oct - Dec 2024 | Python, Flask, SQLAlchemy, Flask-WTF, Flask-Bcrypt, Jinja2 ]

Developed a blog with user auth, CRUD posts, and responsive UI. Used SQLAlchemy, Flask-Migrate, CSRF-protected forms, and Bcrypt-secure passwords.

## SKILLS

**Cloud & DevOps:** AWS EC2/S3, Docker, Kubernetes, Helm, YAML, CI/CD, ArgoCD, GitOps, Kind, Ansible, Terraform

**Programming:** Python, Java, JavaScript, C++

**Infrastructure:** Microservices architecture, Container orchestration

**Tools:** Git, GitHub, Prometheus/Grafana, Jenkins

**Web Technologies:** Flask, REST APIs, HTML/CSS, React (Basic)

**AI Integration:** LangChain, Hugging Face, FAISS

## ADDITIONAL EXPERIENCE

### Content Creator & Editor

Created tech videos (104K+ views) using Premiere Pro, DaVinci Resolve & Audacity.

Improved audio clarity by 95% with noise reduction.

## EDUCATION

**B.Tech - Computer Science & Engineering,** ITER, SOA University, 2022 - 2026

**Senior Secondary, CBSE,** St. Xavier's High School | 2022

**Secondary, CBSE,** DAV Public School, 2020