

# Ankit Prasad

DevOps Enthusiast

📍 India

☎ +91 9426853404

@ [ankitprasad2005@outlook.com](mailto:ankitprasad2005@outlook.com)

🌐 [wlan0.in](http://wlan0.in)

## Profiles

🐙 [GitHub](#)

🌐 [LinkedIn](#)

📝 [Blog](#)

## Skills

### DevOps

Docker, Kubernetes, Terraform, Ansible, AWS, GCP, Azure, Traefik, Nginx, GitHub CI/CD, n8n, Jenkins, Cloudflare, Wireguard, General CI/CD pipelining, Grafana, Prometheus, Loki

### Programming

Python, C/C++, Java, Golang, Rust, shell scripting

### Tech Stack

Django, Flask, FastAPI, Go-Gin, SQLAlchemy, GORM, PostgreSQL, MySQL, SQLite

### Embedded system

Embedded C, Arduino, Raspberry PI, Jetson Xavier, IOT sensors integration, automation

### Miscellaneous

R, MatLab, LTspice

## Education

**Vellore Institute of Technology, Chennai**

B.Tech CSE

8.31 CGPA

Aug 2023 - Present

## Experience

### Pepsales AI

Backend Developer Consultant

🔗 [pepsales.ai](https://pepsales.ai)

Sep 2025 - Dec 2025

Bangalore, Karnataka

- **Enhanced 3+ microservices, fixing concurrency and threading issues** to make them more robust and **efficiently multi-threaded**.
- **Improved ML query performance by 75%** through **batching and parallel execution**, while managing integration with **Pinecone vector DB** for faster retrieval.
- **Managed caching with Elasticsearch**, optimized data handling with **MongoDB**, and ensured **scalable backend** deployments on **AWS** with **negligible downtime**.

### Nayara Energy Limited

Software Development Intern

🔗 [nayaraenergy.com](https://nayaraenergy.com)

May 2025 - June 2025

Jamnagar, Gujarat

- **Designed and built** an internal web portal for **India's 2nd largest refinery**, **processing 500+ SIM requests monthly** and **automating the end-to-end SIM lifecycle** (issuance, activation/deactivation, replacements, porting, eSIM issuance).
- Integrated **Active Directory** for **secure SSO** across **3,000+ employees** and configured **automated email workflows** with Vodafone Idea and Airtel, **cutting manual carrier communications by 95%**.
- Developed a real-time inventory dashboard **tracking 4,000+ SIM cards** with **detailed audit logs**, **slashing reconciliation time by 90%**.
- **Collaborated weekly** with **HR and Admin teams** to refine portal features, **boosting processing efficiency by 80%** and **saving ~40 hours** of manual effort per month.

### Linux Users Group (FOSS United)

Operating Systems Lead

🔗 [lugvitc.net](https://lugvitc.net)

Sep 2023 - Present

Chennai, Tamil Nadu

- Developed a **scalable backend** for deploying **dynamic-flag CTFs**, ensuring **secure and adaptive challenges** for each team. Utilized across multiple events, serving **500+ participants per event** and managing **1400+ concurrent Docker containers** efficiently.
- **Designed and deployed 35+ dynamic CTF challenges** focused on **cryptography, network exploitation, and file forensics**, containerizing and rigorously **testing each challenge** to ensure robustness and security.
- Conducted **5+ workshops** on **containerization, self-hosting, and multi-node infrastructure**, showcasing my **home lab architecture**, running **35+ services securely** as a practical example.
- **Led an on-ground technical support team**, troubleshooting **complex OS-related issues** during events with **550+ participants**. Organized Linux installation booths with **15+ curated spin-offs** tailored to specific use cases.

## Projects

### Rodan

🔗 <https://github.com/intraware>

July 2025

Developed a **containerized CTF platform** with per-team challenge isolation and **dynamic flag generation** for consistent solve flow. Designed a **microservice architecture** with **SSE notifications**, dedicated authentication, and a **Rust-based static file service**. Implemented challenge-type-specific auto-stop policies to **reduce idle resource usage**. Optimized **connection handling and orchestration** to sustain **10K+ req/min**.

**Tech Stack:** Go (Gin, GORM), Rust, PostgreSQL, Docker

### Defdrive

🔗 <https://defdrive.wlan0.in>

Mar 2025

Built a **secure link-generation** system supporting **time-based expiry**, **one-time link usage**, **subnet/IP whitelisting**, and **TTL-restricted access** to control data flow and limit external network exposure.

**Tech Stack:** Go (Gin, GORM), PostgreSQL, Docker, Minio, Redis

### Prabandh

🔗 <https://github.com/ankitprasad2005/prabandh>

Jan 2025

Developed an **NLP-powered file indexer** with **image recognition** and **OCR** for **accurate content tagging** and search. Integrated **Watchdog** for **real-time monitoring** and **Redis caching** to eliminate redundant processing, significantly improving query performance.

**Tech Stack:** PostgreSQL, Tesseract OCR, Docker, Shell Scripts, Go (TUI), Ollama

### GitGuru

🔗 <https://github.com/re-juvenate/gitguru-v2-backend>

Mar 2024

Created a Chrome extension that analyzes and summarizes **GitHub Issues**, delivering actionable insights to **boost developer productivity**. Engineered a **FastAPI backend** running **LLMs** for issue analysis, with a **browser-injected frontend** in HTML, CSS, and JavaScript.

**Tech Stack:** HTML, CSS, JavaScript, Python, FastAPI, Ollama, llama.cpp