

Ankit Prasad

DevOps Enthusiast

📍 India
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🌐 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

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

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

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-juvenile/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