Ankit Prasad

DevOps Enthusiast

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- 🔗 wlan0.in

Profiles

- ○ GitHub
- in LinkedIn
- Ⓑ Blog

Skills

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

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

Tech Stack
Django, Flask, FastAPI, Go-Gin, SQLAchemy, 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

Nayara Energy Limited   May 2025 - June 2025
Software Development Intern   Jamnagar, Gujarat
🔗 https://www.nayaraenergy.com/

- **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.

V-NEST (Startup Incubator)   April 2025 - Present
DevOps Engineer   Chennai, Tamil Nadu
🔗 https://vnest.org

- **Managed and secured** hosting infrastructure, ensuring **data integrity** and **high availability** for **25+ startups** incubated by **V-NEST**, while **optimizing deployment scalability** with **load balancing** across nodes and **CDN integration**.
- Developed secure backend systems for **e-submit** platforms with **3500+ visitors**, handling participant registration, payment processing, and **real-time tracking**, while enhancing **performance and reliability for high-traffic events**.
- Implemented **automated CI/CD pipelines** and conducted **server monitoring and troubleshooting**, streamlining application management with **zero downtime** and ensuring **high availability** for hosted applications, including multiple websites and **Android app backends**.

Linux Users Group   Sep 2023 - Present
Operating Systems Lead   Chennai, Tamil Nadu
🔗 https://lugvitc.net

- 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.
- **Led an on-ground technical support team**, troubleshooting **complex OS-related issues** in real time during events with **550+ participants.** Organized a Linux installation booth with **15+ curated spin-offs** tailored to specific use cases.

CloudOps   Jan 2024 - Present
Technical Member   Chennai, Tamil Nadu
🔗 https://teamcloudopsvitc.github.io

- Delivered **5+ hands-on talks and workshops** on **container runtimes, Dockerization, microservice-based architectures,** and **Kubernetes** covering networking, persistent storage, and orchestration tooling to **streamline CI/CD pipelines.**
- Led **3+ deep-dive sessions** on **self-hosting strategies** and **network architecture design,** including **CGNAT bypassing, service isolation,** and modular infrastructure setups to **ensure scalable, fault-tolerant deployments.**
- Provided practical guidance on **enhancing developer productivity, system reliability,** and operational autonomy through **real-world examples** and **best practices.**

Projects

Defdrive   Mar 2025
🔗 https://defdrive.wlan0.in

Developed **Defdrive**, a system enabling users to generate **time-based expiry keys** with features like **one-time link usage**, **whitelisted subnet or IP access**, and **restricted TTL** (Time-To-Live) to **control data traffic** and **limit external network access.**

Prabandh   Jan 2025
🔗 https://github.com/ankitprasad2005/prabandh

Developed a **file indexer** leveraging **NLP** for **contextual understanding, image recognition**, and **OCR** to accurately **index images** and **enhance search accuracy.** Integrated **Watchdog** for real-time monitoring and **Redis for caching**, minimizing redundant tasks and significantly **improving search speed.**

GitGuru   Mar 2024
🔗 https://github.com/re-juvenate/gitguru-v2-backend

Developed an **AI-driven Chrome extension** that **analyzes and summarizes GitHub Issues**, providing **detailed explanations and solutions** to enhance **developer productivity**. Implemented a **FastAPI backend** running **LLMs** for issue analysis, with a **frontend injected into the web page** using **HTML, CSS, and JavaScript.**