

Ankit Prasad

DevOps Enthusiast

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Profiles

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Skills

DevOps

Docker, Kubernetes, Terraform, Ansible, Traefik, Nginx, GitHub CI/CD, Jenkins, General CI/CD pipelining

Programming

Python, C/C++, Java, Golang, Rust, sh

Tech Stack

Django, Fast, FastAPI, Go-Gin, SQLAlchemy, GORM, PostgreSQL, MySQL, SQLite, Tailscale

Embedded system

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

Education

Vellore Institute of Technology, Chennai

B.Tech CSE

8.17 CGPA

Aug 2023 - Present

Experience

Linux Users Group

Operating Systems Lead

🔗 <https://lugvitc.net/>

Sep 2023 - Present

Chennai

- 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 **700+ concurrent Docker containers** efficiently.
- Delivered **technical talks and hands-on workshops** on DevOps, container runtime environments and reverse proxying, spanning a month-long series. Led **sessions on Dockerization and microservices**, guiding participants through **real-world deployment scenarios**.
- Designed and deployed 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. **Organized a Linux installation booth**, promoting **Linux distributions** and encouraging adoption among students.

CloudOps

Technical Member

🔗 <https://teamcloudopsvitc.github.io/>

Jan 2024 - Present

Chennai

Led a **month-long workshop series** on DevOps and networking, covering **container runtime environments, microservices, and reverse proxying over an intranet**. Delivered **hands-on sessions on Dockerization and CGNAT bypassing**, equipping participants with **real-world deployment skills**.

Dreadnought Robotics

Programming Member

🔗 <https://www.linkedin.com/company/dreadnought-robotics>

May 2024 - Present

Chennai

Worked on **system integration** for the AUV (Autonomous Underwater Vehicle), connecting **Jetson Xavier, Raspberry Pi, and Pixhawk FC** for seamless operation. Additionally contributed to **OpenCV-based vision tasks** and **ESP microcontroller integrations**, enhancing the vehicle's perception and control systems.

Projects

GitGuru

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

Mar 2024

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**.

Defdrive

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

Mar 2025

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

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

Jan 2025

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**.