

Vinayak Tyagi

[Email](#) | [LinkedIn](#) | [GitHub](#)

PROFILE

Second-year CS student and DevOps intern with experience in production infrastructure, AI-powered tooling, and containerized deployments. Building CLI/TUI applications with local LLM integration and managing CI/CD pipelines for cloud-native services.

EDUCATION

Manipal University Jaipur | Bachelor of Technology (B.Tech), Computer Science and Engineering | 2024 – 2028

EXPERIENCE

Software Development Centre, MUJ | DevOps Intern | August 2025 – Present

- Led SSO (Authentik) and knowledge base (Outline) infrastructure implementation
 - Optimized CI/CD with Docker layer caching across 10+ repos; patched Next.js CVE across 5 production services
 - Deployed containerized services using Docker, Caddy, and Cloudflare in 3-person team environment
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PROJECTS

DevLog – AI-Powered Code Review Assistant

Python • Textual • Ollama • sentence-transformers • SQLite

Local-first CLI/TUI that tracks Git commits via hooks, analyzes code with LLMs, and compares implementations against web-sourced best practices using semantic search (all-MiniLM-L6-v2 embeddings).

- Built async TUI with Textual; orchestrated web scraping → LLM synthesis pipeline for best practice reviews
- Tracks 39+ commits across repositories with semantic search for concept-based queries

BrokeBuddy – AI Finance Advisor (*Hackathon Finalist*)

FastAPI • JWT • Llama 3 • Plaid API • Docker

Financial advisory app with JWT authentication, Plaid transaction integration, and Llama 3-powered advice engine. Includes Prophet-based spending forecasting.

- Integrated Plaid API for transaction analysis; implemented secure auth with SQLite backend
- Dockerized multi-container architecture for production-ready deployment

Kuro – Terminal AI Assistant

Python • Mistral (Ollama)

Terminal assistant for automating developer workflows and Git commands using local Mistral model via Ollama.

TECHNICAL SKILLS

Languages: Python, C++, Dart, C

Frameworks & Tools: FastAPI, Flutter, Docker, Caddy, Git, GitHub Actions, Textual, Rich, BeautifulSoup4, httpx

AI/ML: Ollama, sentence-transformers, Llama 3, Mistral, Prophet

Platforms: Linux (Arch, Hyprland, Wayland), Windows

Editors: Neovim, VS Code

Databases: SQLite, Hive

DevOps: Docker Compose, Cloudflare, Prometheus, Grafana

CERTIFICATIONS

- **Introduction to Git and GitHub** – Google | May 2025
- **Python for Data Science, AI & Development** – IBM | May 2025
- **Introduction to Object-Oriented Programming in C++** – University of London | September 2024