

# KANAK TANWAR

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## Experience

### Backend Intern | Vetic, Gurgaon, India

April 2025 – Present

- Built an automated clinic day-closing module that eliminated manual reconciliation, reducing end-of-day turnaround time by **100%**, improving appointment tracking accuracy and increasing revenue realization.
- Implemented POS and Razorpay payment link systems to minimize billing discrepancies, reducing mismatched billings by **40%** and improving financial reconciliation accuracy.
- Developed a centralized cash management system to track daily cash inflow/outflow across clinics, reducing cash variance issues.
- Designed and deployed an OCR-based data extraction pipeline for pet vaccination records, reducing manual data entry effort by **85%**.
- Optimized backend performance by eliminating N+1 queries and improving SQL execution, reducing database load and cutting API latency by **50%**.

### AI Intern | Mentorpal.ai

June 2024 – July 2024

- Developed a Chrome extension recommending personalized LinkedIn messages to prospective leads.
- Built internal resume QA tool using LangChain and LLMs, boosting QA efficiency by 40%.
- Scraped 10+ websites using Selenium and BeautifulSoup, generating 2000+ verified B2B leads.
- Collaborated with cross-functional teams to ship two MVPs within 6 weeks.

## Projects

### Git Chat

[GitHub](#)

- Built a RAG-based application that enables conversational Q/A with public GitHub repositories using LLMs.
- Designed and implemented a multi-model backend with FastAPI, integrating MongoDB for metadata storage, Weaviate for semantic search, and LangChain for retrieval-augmented generation.
- Developed a Streamlit-based UI for seamless user interaction, including real-time streaming responses from LLMs.

### Social Media API

[GitHub](#)

- Built RESTful API in FastAPI with PostgreSQL, SQLAlchemy, and Alembic for full CRUD support.
- Deployed on DigitalOcean with SSL and domain setup.
- Configured CI/CD pipeline using GitHub Actions, reducing deployment time by 80%.

## Skills

- Languages** - Python, Go
- Backend & Web** - FastAPI, Django, Flask
- Databases & ORM** - PostgreSQL, MySQL, MongoDB, SQLAlchemy, Beanie
- DevOps & Tools** - Git, Linux, Docker, AWS, Alembic
- Misc** - REST APIs, Background Workers, Crons, Payment Systems, OCR Pipelines

## Achievements

- LeetCode max rating **1968** (Knight), CodeChef max rating **1684** (3★)
- Global Rank **159** in CodeChef Starters 155
- ICPC Amritapuri 2023 Regionalist
- Qualified GATE 2025 — DA (AIR 702), CS (AIR 3050)
- Winner, AIML Track – HackKRMU 3.0 (Project: WanderAI)
- President, **Deviators Tech Club** — led technical sessions, organized events, and coordinated cross-team initiatives

## Education

| Degree/Certificate | Institute/Board                    | CGPA/Percentage | Graduation |
|--------------------|------------------------------------|-----------------|------------|
| B.Tech - CSE       | Dronacharya College Of Engineering | 86%             | Ongoing    |
| Senior Secondary   | Manav Rachna International School  | 96.0%           | May 2022   |
| Secondary          | Manav Rachna International School  | 97.6%           | May 2020   |