# DRAVIT V

## AI DEVELOPER

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## SUMMARY

To leverage over one years of experience as a AI developer, contributing my expertise, intelligence, and skills to a dynamic and expanding organization. Eager to acquire new technical competencies, I seek opportunities for professional growth within the company.

## TECHNICAL SKILLS

| | | |
|---|---|---|
| Python | GenAI | RDBMS |
| FastAPI | Prompt Engineering | Ollama |
| Git & GitHub | RAG & Vector Databases | React.js & Frameworks |

## PROFESSIONAL EXPERIENCE

**ZGROW Solutions Private Limited • AI Developer • Chennai • Full-time**  **May 2024 - Present**

**SQL Analytics Chat-Bot Platform**  **Nov 2024 - June 2025**

**Responsibilities & Contributions:**
- Designed and tested complete workflow logic: user input via natural language, authenticated using username, password, and payor ID, and routed to the appropriate response flow (text, map, or export) using LLM-based keyword checks.
- Developed the Text and GeoMap response flows using FastAPI, LangChain, and OpenAI:
  - GeoMap flow: Built using Folium and Pandas, converting SQL result DataFrames (with lat/long) into interactive maps with hover markers, color-coded analytics, and place names.
  - Text flow: Converted queries into SQL using schema-aware LLM prompting. Created logic for select-only queries, and fallback handling to return human-readable messages if SQL fails.
- Built a schema preprocessing system using Excel to guide LLMs in generating context-aware SQL. Summarized and returned results as:
  - Text answers
  - Excel downloads
  - Geo maps (when applicable)
- Deployed backend APIs on Azure VM:
  - Managed code deployments via WinSCP + SSH with PuTTY keys
  - Used Linux commands to start services, ensuring real-time processing and response delivery
- Created a sample UI using Streamlit for stakeholders to test functionality easily.
- Integrated LangChain moderation, implemented token usage tracking, calculated cost per query, and logged all user interactions and expenses to the database.

**Technologies Used :**
FastAPI, LangChain, OpenAI, Folium, Pandas, MS SQL Server, Streamlit, Azure VM, SSH, WinSCP, Linux CLI, Ollama, React JS

**IppoSales Customer Support Chatbot CRM**                          **May 2024 - Nov 2024**

**Responsibilities & Contributions:**
- Preprocessed raw documents (PDF, .txt, .md) into system-readable formats for use with RAG (Retrieval-Augmented Generation).
- Built and optimized RAG pipelines using Pinecone, with testing across vector DBs like FAISS, Chroma, Qdrant.
- Created backend APIs with FastAPI for CRM log management and user interaction tracking.
- Integrated Meta for Developers' WhatsApp API using business IDs and tokens for automated chat responses.
- Enabled multilingual support with voice-to-text, text-to-voice, and voice message translation features.
- Built and tested both web-based and WhatsApp-based chatbots with text and voice capabilities.
- Leveraged tools like OpenAI, Claude, LLaMA, Sarvam AI, GCP models, and used Postman for API flow testing.
- Applied advanced prompting and vector indexing techniques to improve chatbot accuracy and response quality.

**Technologies Used:**
FastAPI, React JS, OpenAI, 11 Labs, Google Translate API, LangChain, Pinecone.

**Vincilium • Chennai • AI Internship • Chennai • Full-time**          **Feb 2024 - Feb 2024**
- Built an interactive PDF query chatbot using sentence transformers and FAISS.
- Implemented semantic search to reduce manual information retrieval.
- Explored open-source LLMs like LLaMA 3.

## EDUCATION

**B.E. in Computer Science & Engineering**                          **Aug 2020 – May 2024**
Vel Tech Multi Tech Engineering College  • Chennai

## SOFT SKILLS

- Team Leader
- Problem Solving
- computational Analysis
- Creative Thinking