

Yashwanth Reddy Reddygari

Software developer · Full-stack & AI
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Profile

Software developer building web applications, backend services, and AI tools. Experience includes offline document retrieval at DLRL–DRDO, satellite data processing at ISRO–NRSC, and a college website redesign.

Technical skills

Development: Python, JavaScript, TypeScript, SQL, React, Next.js, Tailwind CSS, Node.js, Express, FastAPI.
Data & AI: PostgreSQL, MongoDB, ChromaDB, retrieval-augmented generation, reranking, Ollama, NumPy, Pandas, Scikit-learn.
Tools: Git, Docker, Firebase, Appwrite.

Experience

- ISRO–NRSC · Project Intern

2025

Worked on gap-filling TROPOMI satellite data using Python, GIS, and machine learning methods in an AI research environment.
- DLRL–DRDO · R&D Intern

2024

Built an offline PDF and DOCX question-answering application using document ingestion, ChromaDB retrieval, cross-encoder reranking, and local inference through Ollama. Developed a Streamlit interface.
- MVSR Engineering College · Website Team Lead

2024

Led the college website redesign after the internal hackathon, using HTML, Tailwind CSS, and JavaScript; coordinated implementation and rollout.

Selected projects

- AEGIS

Source ↗

Local-first document intelligence with cited answers, hybrid retrieval, and requirements revision review. The public walkthrough uses synthetic documents; the application runs privately.
Python · Hybrid retrieval · OCR · Local inference
- Obsidian Relay

Source ↗

Encrypted file sharing with browser-side AES-GCM encryption, scoped access codes, and chunked uploads. The server manages wrapped keys; this is not a zero-knowledge system.
JavaScript · Node.js · Appwrite · Web Crypto
- SyncRoute

Source ↗

A carpooling application that matches passengers and drivers along shared road segments, with route maps, booking, and real-time chat.
React · TypeScript · Node.js · MongoDB · OSRM

Education

- B.E. Computer Science & Engineering

2022–2026

MVSR Engineering College · Listed CGPA: 8.87/10
Coursework: Data structures, operating systems, databases, networks, machine learning.