S. Abhijit Rao

Junior Full Stack & UI Developer

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Executive Summary

Developer with hands-on experience building and deploying web applications using Next.js, React, Tailwind CSS, FastAPI, and PostgreSQL. Delivered an enterprise petroleum analytics platform and an internal documentation chatbot, connecting user interfaces with backend APIs and AI workflows. Seeking Junior Full Stack and UI Developer roles, bringing practical experience in frontend development, API integration, database-backed applications, and cloud deployment.

Professional Experience

MUST Company — Jul 2026 – Present

Forward Deployed Engineer – Full-time — *Remote*

- Co-developed **MatchHire**, a recruitment platform delivered by the team in two months and used to manage approximately **200 applications per week**.
- Worked with recruiters to implement lead auto-assignment, candidate pipeline tracking, and monthly sourcing and conversion reports, reducing manual candidate administration.
- Improved **Must Flow** web interfaces, including navigation layout and dark-mode consistency, using Claude Code and Codex for implementation, debugging, and review, with automated tests and browser checks.

Axension AI — Apr 2026 – May 2026

AI / ML Intern — *Remote*

- Contributed to the **design and implementation of an AI-powered RFQ agent** for pharmaceutical procurement, covering supplier discovery, quotation processing, and human-reviewed procurement workflows.
- Worked across an **Electron and React desktop interface** and **Python / FastAPI backend**, using TypeScript, Tailwind CSS, and PostgreSQL within the application's full-stack architecture.
- Helped translate procurement requirements into application workflows and technical designs for AI-assisted document parsing, supplier comparison, and approval steps.

AstraVeda AI — Jan 2026 – Mar 2026

Generative AI Engineer – Freelance — *Remote*

- Built and deployed an enterprise petroleum analytics website and web application, owning development, infrastructure, and hosting operations.
- Developed client-facing and internal systems using **Next.js, Tailwind CSS, shadcn/ui, FastAPI, and PostgreSQL**, connecting web interfaces with backend services.
- Delivered **Ask Astra**, a multi-agent conversational chatbot, and **Click Astra**, an OCR solution for automated document processing, using LangChain and LangGraph.
- Production links: **petro-astra.in** | **app.petro-astra.in**

Nuevosol Energy Pvt Ltd — Nov 2025 – Dec 2025

AI Intern — *Madhapur, Hyderabad, India*

- Built an enterprise documentation chatbot for a **15-person team**, enabling natural-language queries across internal documents.
- Connected a **Next.js frontend** with a **FastAPI backend**, integrating LangGraph, OpenAI, and ChromaDB for document retrieval and conversational responses.
- Deployed and maintained the frontend on **Vercel** and backend on **Render**, delivering a production chat interface for internal users.

Prodigal AI — Mar 2025 – Jul 2025

Agentic AI Intern — *Remote, India*

- Built retrieval pipelines for **Dhanur AI**, a video-editing automation platform, using **LangChain and ChromaDB** to find reference clips from video metadata.
- Integrated retrieval functionality through a **FastAPI backend** into the editor workflow, supporting automated video-editing tasks.
- Awarded **Intern of the Month** in April 2025.

Projects

Sketch-to-Form – AI Survey Builder | GitHub Link

- Built a **Next.js web application** for a field-survey workflow, enabling teams to upload sketches, review generated forms, publish links, and collect structured responses.
- Developed a **LangGraph pipeline** to extract question types, labels, and options from sketches into JSON, flagging ambiguous fields for human review.
- Integrated **Langfuse tracing and LLM-as-a-Judge evaluation** to inspect pipeline steps, response quality, latency, and cost; used Claude Code for planning and Cursor for implementation.

Natural Language to SQL Agent | GitHub Link

- Built a conversational application using **Python, LangGraph, and SQLite** that converts plain-English questions into SQL, executes queries, and generates answers.
- Created a **Streamlit UI** displaying generated SQL and raw query results, backed by a three-step query-generation, execution, and answer workflow.

Multi-Agent Financial Chatbot System | GitHub Link

- Developed a modular chatbot using **Python, Phidata, and Groq APIs**, integrating open-source language models with specialized finance and web agents.
- Connected **YFinance and DuckDuckGo** tools for stock-data retrieval, web summarization, and financial queries.

Technical Skills

Languages: JavaScript, Python, SQL, Java, C++.

Frontend / UI: React, Next.js, Tailwind CSS, shadcn/ui, Streamlit.

Backend / Databases: FastAPI, Node.js, Express.js, PostgreSQL, SQLite, Supabase.

Deployment / Tools: Git, Docker, Vercel, Render, AWS Lambda, AWS Amplify.

AI Integration: LangChain, LangGraph, OpenAI API, ChromaDB, RAG.

Concepts: API development, version control, software testing, SDLC, multi-agent workflows.

Education

Mahindra University **Aug 2021 – Aug 2025**

Bachelor of Technology in Artificial Intelligence – CGPA: 6.98 *Hyderabad, India*

- **Relevant coursework:** Data Structures, Object-Oriented Programming, Machine Learning, Cloud Computing.