

PATEL TIRTH

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Work Experience

MAGI

Sep 2025 – Present

Founding AI Engineer

Bangalore · Remote

- Shipped a Brand Audit AI agent that checks marketing docs (PDF, live URL) against a brand's style guide, streaming violations over WebSockets and applying fixes through agentic patches.
- Built an automated brand-onboarding pipeline that turns a single company URL into a structured brand identity using LLM extraction; cutting latency 46% (140s to 75s) via parallelization.
- Implemented Anthropic's Contextual Retrieval RAG (chunk-specific context generation), lifting retrieval accuracy 22%, and led the pipeline migration from Dify to a self-hosted Qdrant vector database.

Terra

May 2025 – Sep 2025

AI Engineer Intern

Bangalore

- Built LangGraph agent workflows that translate natural language into JQL (Jira Query Language), cutting token usage 33% through context optimization.
- Developed a FastAPI and WebSocket backend with a React frontend for real-time, interactive data analysis.

Kairali Ceramics

Dec 2024 – Mar 2025

Software Engineer Intern

Kochi · Remote

- Led full-cycle development of an e-commerce mobile app (React Native, MongoDB, AWS S3) and launched the beta on the Google Play Store.
- Built a Node.js and Express.js backend with secure REST APIs powering the app's storefront and order flows.

Unicorniz Innovations

Sep 2023 – Dec 2023

Software Engineer Intern

Remote

- Rebuilt the company website with React and Node.js, adding dynamic UI components for bus and flight booking flows.
- Refactored React components to cut load times and improve runtime performance.

Valsco Technologies

Aug 2023 – Nov 2023

Web Developer Intern and Mentor

Vellore

- Built a responsive React and HTML5 website frontend, and mentored junior developers through weekly code reviews and workshops.

Projects

Business Analytics AI with RAG | *LangChain, OpenAI API, Pinecone, Ollama, SQL*

Github 🌐

- Engineered a native RAG pipeline with LangChain, OpenAI API, and Pinecone to convert natural language queries into precise SQL lookups.
- Integrated unstructured data like user reviews into the GenAI pipeline and optimized Pinecone similarity search for faster retrieval.

Knights and Rook | *Next.js, Tailwind CSS, WebSockets*

Github 🌐

- Developed an online multiplayer chess platform using Next.js with server-side rendering and WebSockets for real-time game state synchronization.
- Designed a responsive, visually appealing UI with Tailwind CSS, ensuring cross-device compatibility and low-latency gameplay.

Technical Skills

Languages: Python, TypeScript, JavaScript (ES6+), SQL

AI & Agents: LLM agents (Agno, ReAct), RAG, embeddings, Claude API, OpenAI API, LangChain, LangGraph, Mem0

Backend: FastAPI, Node.js, Express.js, WebSockets / Socket.IO, Celery, REST APIs

Frontend: React.js, Next.js, React Native, Tailwind CSS

Data & Cloud: PostgreSQL, MongoDB, Qdrant, Haystack, Pinecone, Redis, AWS S3, Docker

Education

Vellore Institute of Technology

May 2021 – May 2025

Bachelor of Technology in Information Technology

Vellore, Tamil Nadu