YASH VERMA

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Summary

Full Stack Developer focused on research-driven learning and building scalable, reliable agentic solutions. Experienced in designing and deploying production-ready agentic flows using LangGraph and LangChain with Gemini LLMs and Python. Strong proficiency in both frontend and backend development with Next.js and Supabase, as well as deploying applications on platforms like Vercel and Linode (including backend deployments via SSH). Passionate about creating high-performance, modern web applications.

Education

Bhagwan Parshuram Institute of Technology   **2021 − 2025**
Bachelor of Technology in Information Technology   *CGPA: 7.9/10*

Skills

Languages: Java, Python, JavaScript, SQL

Web Development: HTML/CSS, ReactJS, Next.js, TailwindCSS

Database: MongoDB, Firebase, Supabase

AI/ML Tools: Gemini AI, Tesseract.js, Langchain, Langgraph, NLP, Deepgram STT/TTS

Telephony & Voice: Twilio voice calling & call handling, calling services integration, Asterisk SIP services

Developer Tools: Cursor.ai, v0.dev, Git, Docker, REST APIs, Next.js Router API

Soft Skills: Problem-solving, Team Collaboration, Time Management

Experience

Finzarc   **Jul 2025 − Present**
Full Stack Developer   *Remote*

- Designing and shipping AI-powered automation systems, conversational agents, and agentic voice-calling solutions to streamline enterprise workflows and reduce manual overhead.
- Architected an agentic calling platform integrating STT/TTS models (Deepgram, Google AI), Twilio SIP Trunking, and Asterisk to enable real-time, fully automated voice interactions with customers.
- Built scalable, production-ready REST APIs with FastAPI and integrated them with modern Next.js frontends, ensuring low-latency communication and clean separation of concerns.
- Deployed and maintained backend services on Linode using SSH-based server administration, Nginx reverse proxy configuration, process managers, and secure networking best practices.
- Developed and maintained full-stack web applications using Next.js, TailwindCSS, and Supabase with real-time data synchronization, role-based access, and optimized UX.
- Implemented secure OAuth-based authentication, dynamic analytics dashboards, and interactive, graph-driven data visualizations for business stakeholders.
- Built AI agents using LangChain, LangGraph, and Gemini AI for workflow automation, document intelligence, and NLP-heavy tasks such as summarization and Q&A.

Projects

ExpensiQ − AI-Powered Expense Tracking Platform

- Developed a modern micro-SaaS expense management platform using Next.js, Tailwind CSS, Supabase.
- Implemented AI-assisted insights using Gemini AI + Langgraph + LangChain to analyze spending, answer natural-language queries, and summarize financial patterns.
- Built real-time dashboards featuring daily/weekly/monthly analytics, category filters, and automated chart visualizations.
- Integrated secure Supabase authentication, receipt upload, automatic data parsing, and real-time synchronization across devices.
- Designed a clean, responsive UI with animations, and a seamless user onboarding experience.
- URL: finzarc-expensetracker.vercel.app

VOCA − Agentic Voice Calling System

- Built an enterprise-grade agentic calling platform leveraging Deepgram/Google AI for STT/TTS, Twilio SIP Trunking, and Asterisk for call routing.
- Implemented real-time conversational automation for tasks like lead qualification, appointment booking, room/bed booking, and customer assistance.
- Developed backend call orchestration logic with FastAPI using Gemini 2.5 flash LLM and deployed the platform end-to-end on Linode using SSH, Nginx, and secure networking practices.
- Integrated multi-step reasoning with LangChain/LangGraph to enable dynamic responses, workflow automation, and context-aware conversations.
- URL: voca-frontend-self.vercel.app

Finzarc AI Chatbot

- Built a public-facing AI chatbot that answers client and user queries about Finzarc's services, vision, and offerings.
- Implemented using LangGraph + LangChain with Gemini AI to process natural-language queries and fetch structured information.
- Integrated web data retrieval to pull content directly from Finzarc's website and present responses in a conversational format.
- Designed a lightweight, responsive chat UI ensuring smooth, real-time interaction and accurate information delivery.
- Website: finzarc.com