Shubham Gangwar

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PROJECTS

Research Reasoner | *Node.js, React, TypeScript, Neo4j, Docker, Railway, Vercel*   GitHub | Live Demo
- Built **production-ready AI research platform** processing **400+ academic papers** with **GraphRAG architecture**, achieving **89.3% accuracy** using Neo4j knowledge graphs, **512-dimensional vector embeddings**, and multi-step reasoning pipeline.
- Containerized and deployed full-stack application using **Docker on Railway** (backend) and **Vercel CDN** (frontend) with **Neo4j Aura** cloud database, implementing **CORS security** and environment-based configuration for production scalability.

Resume Tailor AI | *FastAPI, React, LangGraph, Groq API, Tailwind CSS*   GitHub | Live Demo
- Architected **production-grade AI resume optimizer** using **LangGraph multi-node pipelines** and Groq's LLM API (**llama-3.3-70b**), processing 3-stage workflow: keyword extraction, skill matching, and content rewriting with **Pydantic validation**.
- Containerized with **Docker** and deployed to **Railway** with FastAPI backend and React/Tailwind frontend, reducing resume tailoring time from **2+ hours to 30 seconds** with intelligent AI-driven content optimization.

NexWrit | *FastAPI, React, Gemini API, Supabase, python-docx, python-pptx*   GitHub | Live Demo
- Built full-stack AI document authoring platform with **FastAPI** and **React**, enabling generation of professional Word/PowerPoint documents using **Google Gemini API**, **Supabase PostgreSQL**, **JWT authentication**, and python-docx/pptx libraries.
- Deployed on **AWS EC2** (backend) and **Vercel** (frontend) with section-by-section AI generation, natural language refinement prompts, feedback system, and **AI-powered template generation** that auto-creates document outlines.

SayHungry - AI Voice Agent | *Next.js, Node.js, LiveKit, OpenAI, MongoDB, Twilio*   GitHub
- Developed a **real-time voice-enabled AI reservation agent** using **LiveKit** and **GPT-4o-mini**, supporting **bi-lingual conversations** (English/Hindi) with intelligent code-switching and **latency-optimized streaming**.
- Built a full-stack admin dashboard with **Next.js** and Express that features **dynamic conflict detection**, weather-based seating recommendations via **OpenWeatherMap**, and automated **SMS/Email confirmations**.
- Implemented **comprehensive analytics** to track peak booking hours and cuisine preferences, including a CSV export functionality for data management.

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, SQL
Frameworks & Libraries: Node.js, Express.js, Neo4j, Next.js, FastAPI, LangChain, LangGraph
AI/ML Technologies: Multi-Agent RAG, GraphRAG, Human-in-the-Loop Learning, Vector Embeddings, MCP, AI Gateway & Guardrails, LLM Integration, Prompt Engineering
AI Agent Frameworks: CrewAI, AutoGen (Conceptual Knowledge)
Developer Tools: Git, Docker, VS Code, Neo4j Desktop, Postman, Chrome DevTools, AI-Native Development Tools
Databases & Cloud: Neo4j , MongoDB, AWS basics, Railway

LICENSES & CERTIFICATIONS

- **Microsoft Certified: Azure AI Fundamentals** – *Microsoft*

- **Oracle Cloud Infrastructure 2023 Certified Generative AI Professional** – *Oracle*

EDUCATION

Vellore Institute of Technology   Andhra Pradesh, India
Bachelor of Technology in Computer Science   *Sep. 2022 – June 2026*