

# Sanwar Hussain

Full Stack & AI Engineer · Founding Engineer · Agentic & RAG Systems

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## WHY ME FOR A FOUNDING / EARLY-STAGE ROLE

I build things end-to-end and ship fast — exactly what early-stage teams need. Over 6 years I've gone from App features at a food-tech startup to architecting autonomous AI pipelines in production. I'm equally comfortable owning the frontend, designing the backend, and wiring in AI agents. Two project bets are now deployed products.

## DEPLOYED PRODUCTS

### Marg · Progressive Web App [gomarg.in](https://gomarg.in)

Jan 2026 – Present

- Community-sourced indoor navigation PWA helping people navigate public institutions — hospitals, offices, malls, metro stations, airports — with step-by-step service flows, live tips, and document checklists.
- Architected the full stack: Supabase (Postgres + RLS), Pinecone semantic search with integrated inference, Google Places API (server-proxied) for place enrichment, and a Next.js PWA with offline service worker and contribution queue.
- Built a Google Places enrichment pipeline: full payload fetch on place add, passed through an LLM with structured output to normalise into Marg's data model — description, hours, reviews, type taxonomy, and more.
- Implemented a trust and gamification system: upvotes, flags, moderation queue, 5-tier contributor levels, achievement badges, leaderboard, and a Gemini-powered fraud-detection layer on UPI/voucher redemptions.
- Built mar-support — a full internal support suite with role-based ticket management (users, agents, admins), place discrepancy workflows, points dispute resolution, and redemption fraud review.
- Stack: Next.js, TypeScript, Supabase, Pinecone, Google Places API, Gemini API, LangGraph, Bengali i18n.

### CrewPilot · AI Operations Platform [crewpilot.pro](https://crewpilot.pro)

Early Build, Deployed

- A centralised operational cockpit for organisations — team availability, asset tracking, maintenance logs, task allocation, and internal comms, all in one place.
- AI layer provides planning assistance, operational insights, and automated reporting — designed to replace the spreadsheet + Slack + email mess that most ops teams live in.
- Stack: Node.js, MongoDB, REST API (modular), React, AI operational assistant layer.

## EMPLOYMENT HISTORY

### MERN Stack Developer · ShoreWise Consulting

Feb 2023 – Jun 2024 · Michigan, US (Remote)

- Shipped an autonomous AI interview bot using LLM-driven Q&A evaluation — cut HR screening time by 30%.
- Improved Next.js frontend performance by 15% through SSR and lazy-loading; refactored 1,000+ lines of legacy code, boosting system reliability by 20%.
- Led peer reviews and authored SOPs that reduced production bugs by 5% and cut engineer onboarding time.

### Frontend Developer · Marmeto · Shopify Plus Accelerator

Oct 2021 – Nov 2022 · Bangalore, India

- Built storefronts for Borosil and mCaffeine — increased user engagement 15%, cut load times 20%.
- Wrote custom Node.js middleware bridging third-party APIs with Shopify storefronts; owned end-to-end delivery on complex retail feature builds.

### Software Engineer · Appradius

Dec 2020 – Apr 2021 · Kolkata, India

- Built full-stack features with React/Next.js frontend and REST APIs in Node.js + Express + MongoDB.

## Software Engineer (Frontend) · Slurpalicious

Jul 2019 – Jul 2020 · Kolkata, India

- Developed React Native features for a food-tech platform; contributed to algorithm design and performance optimisation.

## FREELANCE · ONGOING PARALLEL TRACK

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Client projects taken on continuously alongside full-time roles. 8+ clients across India, the US, and the UK — delivered end-to-end.

- AI features shipped: OCR-based medical strip analyser (Gemini + FastAPI + Next.js) and a RAG-powered recipe engine (Genkit + TypeScript) — both in production.
- Delivered 10+ MERN applications from architecture through deployment for global startups across e-commerce, health, and SaaS.
- Built custom CRM systems, CMS platforms, and multi-role auth flows with Stripe payment integrations.
- Constructed Python FastAPI microservices wired to JS frontends; React Native mobile apps delivered end-to-end.

## TECHNICAL SKILLS

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<b>AI / Agents</b>	LangGraph, LangChain, OpenAI API, Gemini API, Ollama, Genkit, Pinecone (RAG / Vector), ElevenLabs, OCR, Prompt Engineering
<b>Frontend</b>	React.js, Next.js, React Native, Redux, Tailwind CSS, ShadCN UI, Core Web Vitals
<b>Backend</b>	Node.js, Express.js, FastAPI (Python), Flask, REST APIs, Microservices, Socket.io, SSE
<b>Infra / Cloud</b>	GCP (Cloud Storage, Vertex AI), Docker, Kubernetes / GKE, Bun, Shotstack, Firecrawl, Tavily
<b>Data &amp; Tools</b>	MongoDB, Supabase, Pinecone, Mongoose ODM, Git, Stripe API, Shopify / Liquid, Postman
<b>Languages</b>	TypeScript, JavaScript (ES6+), Python, HTML5, CSS3

## EDUCATION

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**B.Tech, Information Technology** · GPA 7.85 / 10

Narula Institute of Technology, Kolkata · 2014 – 2018