Sakthi Vignesh

AI-First Full-Stack Engineer | React, Next.js, NestJS, AI Agents and MCP

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PROFESSIONAL SUMMARY

Full-stack engineer who ships AI as product, not demos. 3+ years building production web and mobile systems at scale (a 900-API marketplace platform), plus agents with tools and guardrails, MCP servers and text-to-SQL. Comfortable from database schema to prompt design to polished UI, and from first prototype to monitored release.

CORE SKILLS

AI and agents: Claude, OpenAI SDK, Google Gemini SDK, Vercel AI SDK, MCP, OpenCode, Goose, open-source model integrations, tool calling, RAG, evals, guardrails

Frontend: React, Next.js, TypeScript, React Native, Tailwind CSS, shadcn/ui, Material UI, Mantine, TanStack Query, Redux Toolkit

Backend and data: Node.js, NestJS, Python, PostgreSQL, Drizzle ORM, Redis, REST APIs, Socket.IO

Platform: Docker, n8n, Vercel, AWS S3, Firebase, Git and GitHub, Bun

PROFESSIONAL EXPERIENCE

Full Stack Developer Oct 2024 – Present

Hyperready Technology, Coimbatore, India

- Building DeepSpot, an AI text-to-SQL analytics product (in development) that turns plain-English business questions into SQL, charts and answers over operational data.
- Built the customer website, admin panel (CMS), vendor panel and CRM of BookWedGo, a wedding-venue marketplace with 7 client apps, 3 backends, 900+ API endpoints and 25 integrations (Razorpay, BillDesk, AWS S3, Firebase, Google Maps, WhatsApp, Exotel).
- Delivered BWG CRM in React 18, TypeScript and Vite with TanStack Router and Query, Redux Toolkit and Mantine: 16 modules, about 41 screens, 7 role-based access levels, lead allocation, audit logs and real-time Socket.IO notifications.
- Integrated Exotel call recordings, WhatsApp messaging (WATI) and an AI service that generates call-quality and lead-analysis reports, giving managers evidence for telecaller monitoring and follow-ups.

Freelance AI Agent Developer 2025 – Present

Vantaverse (independent practice), Remote, India

- Created PagePilot, an MCP-based Chrome extension and connector that lets Claude operate real browser tabs, with approval gates, site restrictions, a pause switch and action logs.
- Created MyTest, an AI QA platform in which testing agents run smoke tests and a separate verifier agent reproduces every failure, with screenshots, console and network evidence, before it is reported.
- Built Vanta Embed Agent and the vanta-agent-embed-sdk (NPM) so developers can configure an AI agent with their APIs and tools, then embed it in any web app.
- Write production system prompts as specifications (role, boundaries, tools, output format, fallbacks) and test them against scenario sets before launch.

Software Developer Aug 2023 – Sep 2024

KPR Technology, Coimbatore, India

- Contributed to PDS Vision, an AI model-training application for 3D models (Next.js, Tailwind CSS, shadcn/ui, Python, NestJS).
- Built the React front end of SwingZen, an AI video-analysis app that helps golfers improve their swing.
- Shipped HealthyChamps, a React Native mobile app, after being hired as a React developer and learning the stack on the job.

Production Editor (earlier QC Analyst) 2019 – 2023

TNQ Technologies, Coimbatore, India

- Promoted from QC to Production Editor after an internal assessment; managed client communication and delivery schedules for research-article typesetting and publishing.

EDUCATION

B.Sc. Physics, Karpagam Academy of Higher Education (KAHE), Coimbatore 2016 – 2019
Full-Stack Web Development Program, NSchool Academy, Coimbatore 2023

LANGUAGES

English (professional), Tamil (native)