Sakthi Vignesh

Applied AI Engineer | LLM Applications, Text-to-SQL, Tool Calling and Evals

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PROFESSIONAL SUMMARY

Applied AI engineer who builds LLM-powered features on top of existing models and makes them dependable: tool calling, retrieval, text-to-SQL, guardrails, evaluation sets and cost awareness. 3+ years of full-stack production experience, so the AI work ships inside real products with real users.

CORE SKILLS

LLM application stack: Vercel AI SDK, OpenAI SDK, Google Gemini SDK, Claude, open-source model integrations, tool calling, structured outputs, RAG, text-to-SQL

Reliability: Evals and scenario tests, guardrails, human-in-the-loop approvals, prompt versioning, logging and monitoring, cost and latency control

Engineering: TypeScript, JavaScript, Python, SQL, Next.js, React, NestJS, Node.js, PostgreSQL, Drizzle ORM, Redis, Docker

Agents and automation: MCP servers, OpenCode, Goose, n8n, WhatsApp (WATI), browser automation

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.
- 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.
- 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.

Freelance AI Agent Developer 2025 – Present

Vantaverse (independent practice), Remote, India

- 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.
- 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.
- 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

- Built the React front end of SwingZen, an AI video-analysis app that helps golfers improve their swing.
- Contributed to PDS Vision, an AI model-training application for 3D models (Next.js, Tailwind CSS, shadcn/ui, Python, NestJS).

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)