Sakthi Vignesh

AI Agent Developer | MCP, Tool Calling, Prompt Engineering and Evals

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PROFESSIONAL SUMMARY

AI agent developer who designs, tests and ships agents that do real work. Built PagePilot (Claude operating a real browser over MCP), MyTest (AI testing agents with a verifier), an embeddable agent SDK and an AI call-analysis pipeline in a production CRM. Writes prompts as specifications and proves behaviour with scenario tests before launch.

CORE SKILLS

Agents and models: Claude, OpenAI SDK, Google Gemini SDK, Vercel AI SDK, OpenCode, Goose, open-source model integrations, multi-agent workflows

Agent engineering: MCP servers, tool calling, prompt engineering, RAG, evals and scenario tests, guardrails, human approval gates, agent memory, browser automation

Engineering: TypeScript, JavaScript, Python, SQL, Next.js, React, NestJS, Node.js, PostgreSQL, Redis, Docker, n8n

Integrations: WhatsApp (WATI), Exotel, REST APIs, Socket.IO, ROS 2 and NVIDIA Isaac Sim (AI testing)

PROFESSIONAL EXPERIENCE

Full Stack Developer Oct 2024 – Present

Hyperready Technology, Coimbatore, India

- 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.
- 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.

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.
- Open-sourced ros2-isaac-agent-suite, a Claude Code plugin for AI-driven ROS 2 and NVIDIA Isaac Sim testing that traces simulation failures back to source.
- Write production system prompts as specifications (role, boundaries, tools, output format, fallbacks) and test them against scenario sets before launch.
- Run discovery with small businesses, map their workflows and write a plan of three prioritised automation opportunities with cost estimates; design agents that work in Tamil and English.

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)