

I build production AI systems end-to-end. I designed and operate a multi-agent platform with 136+ skills, 5 MCP integrations, graduated authority, SHA-256 audit trails, and automated infrastructure recovery. Every system is designed for auditability, compliance (POPIA, HIPAA-mapped), and real deployment — not demos, not prototypes, not slideware.

EXPERIENCE

Founder / AI Systems Architect — AI That Books

2025 - Present

Designed and operate a multi-agent AI platform delivering production systems for healthcare, hospitality, business intelligence, and content clients. Sole architect of the skill framework, MCP integration patterns, compliance layers, and infrastructure.

Platform Architecture

- **Canonical skill catalogue:** 136+ skills with contribution standards, version control, deprecation policies, and strategic value testing. Every skill encodes a proprietary way of working or draws from proprietary data sources
- **Skill chaining & routing:** Skills invoked directly or chained into end-to-end automation across 6 intent categories — build, research, services, creative, hospitality, business development
- **Guardrail gates:** Always-on enforcement of voice standards, claim verifiability, service boundaries, and build discipline — prevents hallucinations and scope creep at the system level

MCP & Integration Architecture

- **5 MCP server integrations from scratch:** InfraNodus (knowledge graphs), Vapi Voice (telephony), MemPalace (FAISS semantic memory), custom API server, webhook gateway — each with documented connector protocols, tool schemas, authentication patterns, and error handling
- **Platform-agnostic design:** Same architecture patterns work across OpenAI, Anthropic, Google, and local GGUF models. Built Hermes-to-Paperclip adapter for multi-orchestrator workflows

Compliance & Governance

- **Three-layer data protection:** SHA-256 hash-chained audit trails with tamper detection, scope-based consent registry with opt-in/opt-out per data category, human-in-the-loop gates at every PII touchpoint
- **Cross-client isolation:** Per-client workspaces with restricted skill contexts, separate knowledge bases, independent audit logs. POPIA-ready, HIPAA-mapped
- **Self-healing infrastructure:** Health-check monitors, auto-restart on crash, disk usage alerts, recovery cron — 99%+ uptime on consumer-grade VPS hardware

Independent AI Consultant — Various Clients

2024 - 2025

Delivered production AI systems for healthcare, dental, hospitality, and business intelligence clients. Each engagement involved infrastructure design, deployment, and ongoing operations — not strategy documents or proof-of-concept code.

Diamond Health — Clinical AI Infrastructure

- **SMS triage, voice AI front-desk, and clinical loop closure** for a 7-physician concierge practice. 7 auditable control layers, HIPAA-ready architecture. Stack: Twilio SMS, Vapi Voice AI, Claude Sonnet, PostgreSQL
- Designed for a **\$2,500-\$12,000/mo concierge membership model** with referral tracking. Hash-chained audit trails at every patient touchpoint

DentaLink — Dental Practice Automation

- **Full-stack dental AI:** WhatsApp booking, voice assistant, web scheduling, medical aid verification, HubSpot CRM integration. 30-40% reduction in no-show rates through intelligent appointment reminders and automated rescheduling

Hermann Concierge — Hospitality AI

- **WhatsApp-native AI concierge** for safari lodges and hospitality businesses. 6-category intent routing, graduated authority, persistent guest memory banking across sessions
- **Complete sales package:** Demo landing pages, live test environments, and automated video demo generation for prospective lodge clients

Signal — 24/7 Competitive Monitoring

- **Always-on intelligence system:** Monitors competitor pricing, product launches, positioning shifts, regulatory

changes. Auto-generates briefs and dispatches targeted outreach

- **Multi-client infrastructure:** Per-client isolated knowledge graphs, separate monitoring schedules, independent alert thresholds. Retainer model at R25K/month

Additional Projects

- **Product Health Dashboard:** Content intelligence for a global sports league — topic cluster mapping via InfraNodus knowledge graphs, content gap identification, SEO strategy recommendations
- **MoneyPrinterTurbo:** Automated video generation pipeline — topic in, script, stock footage, AI voiceover, subtitles, background music, MP4 delivery
- **CI Engine:** Automated competitive intelligence brief generation for B2B SaaS targets — company research, content gap analysis, customized outreach messaging

KEY STRENGTHS

Skill Architecture & Governance

Designed and operates a canonical skill catalogue with contribution standards, version control, deprecation policies, and strategic value testing. Every skill must be proprietary or data-backed.

MCP & Integration Design

Built 5 MCP server integrations from scratch. Designed connector protocols, tool schemas, authentication patterns, and error handling. Platform-agnostic across all major LLM providers.

Compliance & Audit Systems

Three-layer data protection: SHA-256 hash-chained audit trails with tamper detection, scope-based consent registry, HITL gates at every sensitive touchpoint. POPIA-ready, HIPAA-mapped.

End-to-End Production Delivery

From infrastructure design through deployment to ongoing operations. Six live systems across healthcare, hospitality, BI, and content — all on consumer-grade VPS with automated recovery.

TECHNICAL STACK

Agent Frameworks

Hermes Agent, Claude Code, Codex CLI, Agent Zero, Paperclip, OpenAI Agents SDK

MCP & Integrations

InfraNodus, Vapi Voice, MemPalace, Google Workspace, HubSpot CRM, custom MCP servers (API, webhook)

Infrastructure

Docker, Traefik, PostgreSQL, Ubuntu Linux, WebSocket, VPS, Cron, nginx, s6-overlay, self-healing watchdogs

Data & Intelligence

Knowledge graphs (InfraNodus), FAISS vector memory, Exa API, SEC EDGAR, web scraping, Scrapling, content gap analysis

Compliance

SHA-256 audit trails, HITL gates, consent registry, POPIA, HIPAA-mapped, tamper detection, cross-client isolation

Messaging & Content

Twilio SMS, Vapi Voice, WhatsApp Business API, MoneyPrinterTurbo, Edge TTS, FFmpeg, YouTube transcription

CRM & Business Tools

HubSpot CRM, GoHighLevel, LinkedIn Sales Navigator, Notion API, Linear, Google Workspace, AirTable

LLM Providers

OpenAI, Anthropic, Google Gemini, OpenRouter, local GGUF inference, custom provider adapters