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PROFILE

Systems builder and technical operator with 17+ years building and running production web, infrastructure, backend, automation, data, and AI systems. I turn messy operational problems into clear workflows, choose the simplest reliable implementation, and stay accountable through deployment, monitoring, recovery, and improvement. I came to AI from production systems, not the other way around.

EXPERIENCE

Independent Systems Builder & Technical Operator

2009–Present · Manila / Remote

- Design and operate internal platforms, event-driven services, AI workflows, infrastructure, and production web systems for operationally complex businesses.
- Translate business processes into authoritative data models, explicit workflow states, human approval points, provider integrations, audit trails, and recoverable failure paths.
- Build across Python, FastAPI, Go, TypeScript, Next.js, PostgreSQL, Redis, ClickHouse, queues, LLM APIs, RAG, agents, and observability systems.
- 17+ years of Linux, hosting, cPanel / WHM / WHMCS, DNS, email, migrations, deployment, incident response, and long-running production operations.
- Use Claude Code and Codex as implementation leverage while retaining responsibility for architecture, requirements, review, testing, deployment, and operational outcomes.

SELECTED SYSTEMS

MX Sentinel — AI email infrastructure observability

Go-based event system correlating SMTP telemetry, DNS changes, DMARC data, reputation signals, and incidents. Combines deterministic evidence with AI-assisted diagnosis for mail operators.

Stack: Go · PostgreSQL · ClickHouse · Redis · NATS · Next.js · Docker · observability

Northstar — AI-native business operations platform

Sanitized production architecture connecting research, qualification, AI drafting, human review, campaigns, client workflows, payments, reporting, and role-based operations.

Stack: FastAPI · Next.js · PostgreSQL / pgvector · agents · queues · audit trails

Video Automation Service (VAS) — AI video production engine

AI editorial layer and deterministic rendering pipeline that turns scripts and topics into finished videos. AI plans; typed edit plans, workers, Remotion, and FFmpeg execute.

Stack: FastAPI · worker architecture · Remotion · FFmpeg · provider fallbacks · asset cache

Seoul.fm — production streaming platform

17-year live K-pop streaming platform with multi-bitrate HLS/CMAF, real-time APIs, mobile client, chat, encoding operations, and self-hosted monitoring.

Stack: Next.js · Flutter · Node.js · Python · Redis · FFmpeg · Cloudflare · HLS

TECHNICAL RANGE

Systems	Linux, Docker, networking, hosting, monitoring, deployment, migrations
Backend	Python, FastAPI, Go, Node.js, TypeScript, REST APIs, async services
Data	PostgreSQL, Redis, ClickHouse, pgvector, SQL, event streams
AI	LLM APIs, tool calling, RAG, structured outputs, agents, human-in-the-loop workflows
Operations	Queues, retries, idempotency, auditability, observability, failure recovery, cost controls
Integration	Webhooks, Gmail, Google Workspace, payments, CRM, WHMCS, third-party SaaS

OPERATING PRINCIPLES

Deterministic core, probabilistic edge. Business state belongs in proper software, not prompt memory. Use AI where reasoning adds value, automation where workflows are deterministic, and human approval where mistakes are expensive. Make failures visible and recoverable.