

PROFILE

Twenty years leading hotel teams — now I lead AI coding agents, with the same method: clear specifications, standards, review and accountability. **PropDesk is a live, multi-tenant trading automation and risk-control SaaS with paying subscribers**; I took it from zero to production in eight months as its founder, architect and sole engineer. That method is how one person ships at team scale.

240k+

LINES SHIPPED

8 mo

ZERO TO PRODUCTION

7

BROKER INTEGRATIONS

21

BACKEND MODULES

245

TEST MODULES

Live

PAYING CUSTOMERS

FLAGSHIP PRODUCT

Founder & Principal Engineer — PropDesk2026 – Present

[propdesk.trade](#) · [Production SaaS on Stripe subscriptions](#) · [a control room for prop-firm traders](#)

- **Architecture and stack.** Python / FastAPI / SQLAlchemy 2.0 over PostgreSQL with TimescaleDB and Redis; React 18 + TypeScript + Vite + Tailwind frontend with a configurable widget workspace; Tauri desktop build.
- **Seven broker and market-data integrations built from vendor protocols** — TopstepX, Rithmic, Tradovate, cTrader, MetaTrader 5, dxFeed and MyFundedPerps — spanning REST, WebSocket streaming, OAuth and browser-automation fallbacks behind one normalised adapter interface.
- **Real-time risk and automation engine.** Live P&L over SSE and WebSocket with automated loss limits, position flattening, account lockout, hedge detection and broker-side rule sync; TradingView, ATAS and webhook signals validated against per-account risk rules before execution; master/follower copy trading with cross-broker symbol mapping.
- **AI features shipped in-product.** Multi-provider LLM gateway (Anthropic, OpenAI, Gemini, DeepSeek, Grok, Groq) on a bring-your-own-key model with encrypted key storage and trading-context injection; a rule-based insights engine; and a real-time speech pipeline streaming PCM audio through Azure speech-to-text, translation and neural TTS to concurrent clients.
- **Production operations and commercial.** Containerised stack with Nginx, PgBouncer, Prometheus and GPG-encrypted backups — I run the deploys, monitoring and incidents. Stripe subscription tiers with entitlements, trials and reconciliation; GDPR consent; WCAG 2.1 AA.

HOW I BUILD — AI-NATIVE ENGINEERING

- **Specification-driven delivery.** Every backend module carries a behavioural specification — 18 in total — as the single source of truth. AI implements against the spec; I own the contract, the review and the acceptance criteria.
- **A repeatable toolchain, not ad-hoc prompting.** A private library of 20+ domain-specific agent skills (broker protocols, risk logic, execution semantics), a persistent memory layer, structured handoffs and a codified lessons file, so context and fixes survive between sessions.
- **Verification is the discipline.** 245 backend test modules, Playwright end-to-end suites, 161 versioned migrations and staged deploys — the system moves real money through real brokers for real customers.

TECHNOLOGY

Backend	Python, FastAPI, SQLAlchemy 2.0, Alembic, Pydantic, asyncio, REST / WebSocket / Server-Sent Events, OAuth 2.0, JWT authentication
Frontend	TypeScript, React 18, Vite, Tailwind CSS, TanStack Query and Table, Zustand, Radix UI, Lightweight Charts, Tauri
Data & infra	PostgreSQL, TimescaleDB, Redis, Docker Compose, Nginx, PgBouncer, Prometheus, Cloudflare, Linux VPS, versioned migrations
AI / LLM	Claude Code and agentic development workflows, Anthropic and OpenAI APIs, Model Context Protocol servers, prompt and context engineering, Azure Speech Services
Testing & domain	pytest, Vitest, Playwright · futures and CFD market structure, broker execution protocols, risk and drawdown rules, prop-firm evaluation models

LEADERSHIP & OPERATIONS EXPERIENCE

Independent Futures & CFD Trader — Self-employed2020 – Present

Paid out by six leading prop firms: FTMO, Topstep, MyFundedFutures, Lucid Trading, Tradeify and Take Profit Trader. **Verified FTMO record: 15 payouts, US\$39.8K, Max Capital Allocation ([public profile](#))**. The domain behind every requirement in PropDesk.

Director of Food & Beverage — SANA Malhoa Hotel, Lisbon2016 – 2020

Owned a department with roughly **€2M annual revenue**, full P&L and budget ownership. Led recruitment, training and performance standards, and authored the SOPs through the unit's restructuring.

Director of Food & Beverage — EPIC SANA Luanda Hotel, Angola2012 – 2016

Directed a five-star, 288-room operation generating approximately **US\$15M in annual revenue** across seven outlets. Defined outlet concepts and commercial positioning, set annual budgets, and owned hiring, training and operational controls for a large multicultural team.

Premium Hospitality & Events — Lisbon, Portugal1998 – 2012

Service and management roles at Restaurante Eleven (Michelin-starred), Casa da Comida and Kais; embassy and government events.

EDUCATION & ADDITIONAL

Education	ADHP — Specialisation in Hotel Management · eCornell — Hospitality Management 360 (2010–2011) · self-taught software & AI engineering
Languages	Portuguese — native · English — professional working proficiency, written and spoken
Additional	Lisbon, Portugal — available on-site, hybrid or remote · driving licence A and B · references available on request