

ALISSON ROCHA

Full-Stack Software Engineer | TypeScript, React/Next.js, Node/NestJS | AI & Agent Engineering

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SUMMARY

Full-stack engineer with 4+ years building software that businesses trust with real money and real operations. Currently the engineering force behind the internal platform of one of Florida's largest vacation-rental companies (1,000+ homes, \$7M+/month in Airbnb bookings), and co-founder of a property management SaaS with 280K+ lines of production TypeScript. Deep production AI experience: private LLM infrastructure, retrieval-augmented assistants, agent orchestration, and an AI-native daily workflow with Claude Code. Known for shipping fast without breaking things that matter.

EXPERIENCE

Software Engineer (Contract) — Master Vacation Homes, Kissimmee FL

Feb 2025 – Present

One of Florida's largest vacation-rental management companies (1,000+ homes, \$7M+/month grossed on Airbnb alone). Second engineer in the technology team, reporting directly to the head of engineering.

- Lead developer of the company's proprietary property management platform (majority of all commits), covering guest messaging with approval workflows, owner statements, payout auditing, and role-based access control across web, API, and browser-extension surfaces (FastAPI, PostgreSQL, Next.js, Chrome extension).
- Designed and built the financial reconciliation layer that audits millions of dollars in monthly payouts, commissions, and owner charges against the company's systems of record, engineered with staged execution, full audit trails, and 550+ automated tests so that software can write financial records with zero tolerance for error.
- Brought the company's AI infrastructure fully in-house: deployed a private LLM inference server on dedicated NVIDIA hardware and built a retrieval-augmented guest-reply assistant with layered hallucination controls and automated quality evaluation, keeping guest data private at zero per-token cost.
- Automated recurring operations across the entire portfolio (smart-lock code provisioning, payout auditing, financial reporting), replacing hours of daily manual work with monitored, self-healing workflows.
- Unlocked integrations no vendor offered by reverse-engineering the undocumented APIs of three industry platforms, then shipped two production Chrome extensions that automate daily operations on top of them.

Co-Founder & Lead Engineer — Orbi (Property Management SaaS)

Feb 2026 – Present

Multi-tenant SaaS for US vacation-rental management companies, built from the ground up. Employer-aware side venture; separate stack and codebase.

- Architected the entire platform: a 241-table data model spanning 20+ business domains, with tenant isolation enforced at the ORM layer and database-backed, per-role permissions (NestJS, Next.js, Prisma, MySQL, Redis).
- Personally designed and shipped a 157-page admin application (~168K lines of TypeScript, ~1,100 commits) with high-density virtualized data grids, full observability, and automated end-to-end and accessibility testing; co-built the 26-module API.
- Designed a trust-accounting-compliant financial engine (double-entry owner ledgers, payout batching, settlement reconciliation) with multi-gateway payments via Stripe Connect and encrypted banking data.
- Built distribution to 60+ booking channels (Airbnb, Vrbo, Booking.com) through a channel-manager integration with two-way sync, webhook-driven reservation ingestion, and durable job pipelines for money-critical operations.

Full-Stack Developer — CODEBOSS, Brazil

2022 – Nov 2024

Full-stack development (PHP, JavaScript, MySQL) on client projects at a software house, including television applications under NDA.

- Co-designed the architecture of a multi-tenant omnichannel customer-service platform that unifies multiple WhatsApp business lines and an embeddable website chat widget into one real-time agent inbox; still in production more than two years later.
- Built the platform's entire frontend: a real-time agent workspace with live message delivery, typing indicators, read receipts, and department-based queues over WebSocket, plus a one-line embeddable chat widget and analytics dashboards.
- Contributed backend features through a pair-and-review workflow with the lead backend developer.

SKILLS

Languages: TypeScript, JavaScript, Python, PHP, SQL

Frontend: React 19, Next.js (App Router), Tailwind, TanStack Table/Virtual, Zustand, SWR

Backend: NestJS, Node.js, FastAPI, Prisma, REST/OpenAPI, JWT/RBAC, BullMQ/Redis

Data: PostgreSQL, MySQL/MariaDB, SQLite, S3

AI Engineering: LLM APIs (Anthropic SDK), RAG, agent orchestration, LLM-as-judge evaluation, MCP, self-hosted inference (vLLM), embeddings, Claude Code as daily default

Infra & Quality: Docker, GitHub Actions CI/CD, Sentry, n8n, TDD (Jest, Vitest, Playwright, pytest), Chrome extensions (Manifest V3)