ELIAS OLIVEIRA

Senior Full-Stack Software Engineer

STATUS: ONLINE :: REMOTE, WORLDWIDE

USER_DATA

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TECH_STACK

BACKEND:

`Python (FastAPI)` `Node.js / Bun` `Event-Driven Arch` `PostgreSQL / pgvector` `Redis` `Oracle` `C (Win32)` `Claude API / MCP`

FRONTEND:

`React (Concurrent)` `Next.js (SSR/RSC)` `TypeScript` `Performance`

DEVOPS:

`Docker` `CI/CD` `Self-hosting (Coolify, Caddy)` `Observability` `Cloudflare Workers` `Edge Computing`

EDUCATION

• Undergraduate Technology Degree (Tecnólogo) in Systems Analysis and Development, in progress - Federal Institute of Sertão Pernambucano (IF Sertão-PE)

• IBM Data Science

• IBM Machine Learning

SUMMARY

Senior Software Engineer with 7+ years of experience building high-performance, production-grade systems. Strong background in microservices, legacy-system integration, real-time systems, and AI-driven products (agents, MCP, and RAG).

EXPERIENCE

AI & Automation Specialist · Software Architect

Grupo JAC (Retail & Distribution) | Jun 2026 - Present

First dedicated technology hire, reporting directly to the Managing Director. Replaced a low-code stack with an in-house platform of 12 production components in 5 months.

- Microservices architecture with a centralized identity service (refresh-token reuse detection, Argon2, rate limiting), with authorization enforced by each consuming service.
- In-house Pix (instant payments) at every checkout: a pure C proxy DLL (WinINet, built with Zig) hooked into the POS, plus a payments microservice with mTLS, webhooks, and idempotent refunds.
- Read-only gateway over a legacy Oracle ERP, exposed via REST and MCP, with AST-based SQL validation (sqlglot) and enforced pagination.
- Knowledge base for AI agents (MCP + pgvector) with provenance, time-bound validity, and an append-only audit trail.
- WhatsApp operations assistant powered by Claude (tool use with two-layer permission checks against prompt injection) and proactive monitors.
- Self-hosted platform (Coolify, Caddy, CI/CD with tag-based rollback, Prometheus/Loki/Grafana) backed by 450+ automated tests.

Senior Full-Stack Engineer

Freelancer / Consultant | 2023 - Present

Designing and developing real-time, event-driven platforms handling sensitive, high-volume user data.

- Social Assistance Platform: Real-time messaging and offline-first frontend.
- Geolocation System: Optimized location-based queries and UI responsiveness.

PROJECTS

Pix at the POS · Grupo JAC

- English Proficiency C1 (EF SET)

In-house Pix (instant payments) at every checkout without touching the POS software: a pure C proxy DLL that intercepts only Pix and forwards card payments to the original payment-terminal library, backed by a payments microservice with mTLS, bank webhooks, and idempotent refunds. Validated with real money before rollout.

`[C (Win32)] [WinINet] [Zig] [Bun] [Hono] [mTLS] [PostgreSQL]`

Knowledge Base for AI Agents · Grupo JAC

The company's official memory, consumed by agents over MCP: semantic search that always returns the literal record, provenance and expiry date for every fact, superseded versions instead of deletes, and an append-only audit trail.

`[Bun] [Hono] [PostgreSQL] [pgvector] [MCP] [Embeddings]`

AI Gateway for a Legacy ERP · Grupo JAC

Read-only access to an Oracle ERP for services and for Claude: AST-based SQL validation (single statement, SELECT only, WHERE required on large tables), enforced pagination, and one core serving both REST and MCP.

`[Python] [FastAPI] [Oracle] [sqlglot] [MCP]`

VPSQL

Control plane for provisioning isolated PostgreSQL databases on a single VPS: transactional least-privilege role setup, PgBouncer connection pooling, schema introspection, a Go CLI, and a Next.js dashboard with Ed25519 auth.

`[Go] [Fiber] [Cobra] [PostgreSQL] [PgBouncer] [Next.js]`

AqueleCRM

CRM built on a generic entity model (dynamic JSONB properties, no migration per field), Notion-style documents, granular RBAC, graph-based automations, and a WhatsApp inbox with an AI assistant.

`[Next.js 16] [React 19] [PostgreSQL] [Redis] [Tiptap] [Evolution API]`

Postly

AI-powered CMS ecosystem in a monorepo: queue-backed API, Python microservices for "People Also Ask" research and image generation, scheduled publishing, a Telegram bot, and an MCP server for agents.

`[Turborepo] [Node.js] [BullMQ] [Python] [FastAPI] [MCP]`

Lshort

Link shortener with edge redirects (Worker + KV) and Postgres as the source of truth, with replication and rollback, city/device/UTM analytics, and an API-key-protected API.

[Cloudflare Workers] [KV] [Next.js] [PostgreSQL] [Upstash Redis]

agy-suite

Bridge between an AI coding agent and Telegram: one-tap command approvals on the phone racing the terminal prompt, autonomous mode, and remote conversations.

[Bash] [Telegram Bot API] [systemd] [AI Agents]