

Leonardo Cardoso Ferreira de Santana

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SUMMARY

Full Stack Software Engineer focused on backend architecture, distributed systems, automation platforms, real-time communication, and cloud-hosted infrastructure. Experienced building production-grade applications from scratch using TypeScript, NestJS, Node.js, React, Next.js, PostgreSQL, Docker, and Linux environments. Strong interest in scalable software systems, DevOps practices, financial technology, and AI-driven solutions.

EDUCATION

SENAI

Systems Development Technician

2023 – 2024

SESI

High School Diploma

2022 – 2024

EXPERIENCE

Full Stack Developer

2025 – Present

CPAE – Centro Psicopedagógico e Apoio Emocional

- Architected and developed a healthcare and educational support platform from scratch using NestJS, Next.js, PostgreSQL, and Docker.
- Built an automated patient triage and lead acquisition workflow, reducing onboarding friction and improving operational efficiency.
- Designed and maintained backend APIs, authentication systems, and administrative tools.
- Managed Linux VPS infrastructure, containerized deployments, SSL configuration, and production maintenance.
- Optimized PostgreSQL queries and database structures to support scalable application growth.
- Technologies: NestJS, Next.js, PostgreSQL, Docker, Linux VPS, Nginx

Full Stack Developer

Sep 2025 – Dec 2025

BX Consultoria

- Developed backend services and business-oriented web applications using NestJS, React, and PostgreSQL.
- Designed REST APIs and integrated third-party services for enterprise workflows.
- Improved deployment consistency through Docker-based development environments.
- Collaborated on software architecture and database modeling decisions.
- Technologies: NestJS, Node.js, React, PostgreSQL, Docker

PROJECTS

Robo Fractal — Automated Trading Platform | TypeScript, NestJS, React, PostgreSQL, Prisma, Puppeteer, Docker

- Architected an automated trading infrastructure using event-driven signal processing.
- Developed Linux VPS automation services using Puppeteer, Xvfb, and monitoring routines.
- Built webhook processing pipelines for signal normalization and trade execution routing.
- Implemented risk-management strategies including Fixed Entry, Soros, and Martingale models.
- Created monitoring dashboards for execution visibility and operational diagnostics.

Profit X / BackOption — Trading Terminal & Back Office | Node.js, TypeScript, React, PostgreSQL, Socket.IO

- Developed a full-stack financial platform with real-time market data and interactive charting.
- Built resilient quote delivery systems using WebSocket and REST fallback mechanisms.
- Implemented secure financial workflows including PIX processing, transaction ledgers, and HMAC validation.
- Designed administrative tools for user management, asset configuration, auditing, and reporting.

Trading Bolt AI — Multi-Agent Market Intelligence Platform | NestJS, TypeScript, PostgreSQL, Docker, AI APIs

- Developed an AI-powered crypto market monitoring platform using multi-agent workflows.
- Integrated LLM services with custom evaluation pipelines for automated market analysis.
- Built containerized backend services for scalable deployment and low-latency execution.

TedInver Reborn | Godot Engine, GDScript

- Developing a narrative-driven RPG focused on character progression and world interaction.
- Designing gameplay systems, progression mechanics, and combat architecture.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, HTML, CSS

Backend: NestJS, Node.js, Express.js, PHP, Laravel

Frontend: React, Next.js, Vite, TailwindCSS, TanStack Query

Databases: PostgreSQL, MySQL, SQLite, Prisma ORM

Infrastructure: Docker, Docker Compose, Linux VPS, Nginx, PM2

Real-Time Systems: Socket.IO, WebSockets, Redis

Testing & Tools: Playwright, Vitest, Postman, Git, GitHub

Concepts: REST APIs, Microservices, Event-Driven Architecture, SOLID, Clean Architecture

LANGUAGES

Portuguese — Native English — Professional Working Proficiency (B1) Spanish — Advanced Professional Proficiency (B2)