LUCAS DEIRÓ RODRIGUES

Full Stack Software Engineer · React · TypeScript · Next.js · Node.js · Java · PostgreSQL

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PROFESSIONAL SUMMARY

Computer Science student (Universidade Tiradentes, 4th semester) and Full Stack Software Engineering Intern at Senac Sergipe (since November 2026), focusing on resilient enterprise and commercial architectures. Built and deployed an end-to-end production ERP actively used in a physical apparel boutique (Gabi Modas) and engineered backend services for an enterprise Online Dispute Resolution (ODR) platform. Practical experience across React 19, TypeScript, Next.js, Node.js, and Java backend microservices, with a strong focus on ACID transactions, role-based access control (RBAC), Clean Architecture, and automated testing (Vitest, Playwright, pytest).

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, SQL, HTML5, CSS3

Frontend: React 19, Next.js (App Router, Server Actions, Middleware), Vite, Tailwind CSS, shadcn/ui, Recharts, Mobile-First Design

Backend: Node.js, Fastify, Express, RESTful APIs, Vercel Serverless Functions, Java (HttpClient, CompletableFuture, JDBC, Spring Boot), Asynchronous Python (FastAPI)

Databases & Cache: PostgreSQL, Supabase (Auth, Storage, RLS), MySQL, Redis, SQLAlchemy, PGlite

Security & Quality: RBAC (Role-Based Access Control), JWT, Row Level Security (RLS), httpOnly session cookies, Vitest, Playwright (E2E), pytest

Architecture & Tools: Clean Architecture, Hexagonal Architecture, Git, GitHub, Docker, Linux, Vercel CI/CD, Spec-Driven Development (SDD)

PROFESSIONAL EXPERIENCE

Full Stack Software Development Intern — Senac Sergipe

Nov/2026 – Present | Aracaju, Brazil

- Develop and maintain internal enterprise systems, delivering end-to-end functionality from responsive user interfaces to backend microservices.
- Build and optimize core business modules, transactional workflows, data processing pipelines, and internal RESTful API integrations.
- Collaborate in an agile multidisciplinary engineering team, adhering to Git/GitHub best practices, peer code reviews, and continuous deployment workflows.

FEATURED PROJECTS

Gabi Modas Management System — Retail Store ERP & POS Platform

Production System

Stack: React 19, TypeScript, Vite, Tailwind CSS, shadcn/ui, Node.js, PostgreSQL (Supabase RLS), Vercel

- Full-stack retail ERP engineered from scratch and used daily in a physical apparel boutique, centralizing inventory with S/M/L size-matrix tracking, customer installment credit accounts (up to 12x with FIFO settlement), and cash reconciliation.
- Engineered **transactional locking mechanisms** to prevent concurrent checkout overselling; stored currency values in integer cents to eliminate floating-point arithmetic errors.
- Integrated mobile camera barcode scanning, thermal receipt printing, Google Calendar event sync, and financial KPI reporting with CSV and PDF export.
- Enforced Clean Architecture boundaries verified by automated tests running against an in-memory PostgreSQL instance (PGlite) with automated daily backup routines.

Online Dispute Resolution (ODR) Platform — Digital Mediation & Settlement System

Software Residency II (UNIT)

Stack: Node.js, Fastify, Redis, TypeScript, REST APIs, PostgreSQL

- Web platform built to streamline and accelerate legal and commercial dispute settlements between conflicting parties, eliminating costly court friction.
- Engineered a high-throughput backend using **Fastify and Redis** for low-latency dispute intake, counter-offers, and real-time mediation messaging.
- Implemented full settlement lifecycle: structured dispute intake with secure document uploads, **real-time protected negotiation chamber**, and formal counter-proposal workflows with audit trails.
- Automated generation of legally binding **Digital Settlement Agreements** featuring digital timestamping and tamper-evident audit history.

MarcaSE — Clinical Management SaaS Software Residency I (UNIT)

Stack: React, TypeScript, Next.js (App Router), Supabase Auth, PostgreSQL, Recharts

- Served as team tech lead and frontend developer for a clinical management platform designed to reduce patient appointment no-shows through automated patient communications.
- Engineered **Role-Based Access Control (RBAC)** spanning 5 user roles (Doctor, Administrator, Financial, Receptionist, Patient) protected by Next.js middleware route guards.
- Built real-time telemetry dashboards with Recharts and resolved critical production hurdles involving PostgREST schema cache and auth storage conflicts.

Location Data & Public APIs Aggregator — Asynchronous Microservice Personal Project

Stack: Modern Java, HttpClient, CompletableFuture, Layered Architecture

- High-throughput concurrent service that aggregates geolocation, local weather, currency exchange, and national holidays from multiple public APIs in real time.
- Implemented non-blocking parallel requests via CompletableFuture with DTO abstraction mapped into clean unified domain models.

EDUCATION

Bachelor of Science in Computer Science — Universidade Tiradentes (UNIT) Feb/2025 – Jul/2029 (Expected) | Aracaju, Brazil

LANGUAGES

Portuguese: Native | **English:** Intermediate (Fluent technical reading, agile documentation analysis, and corporate written communication)