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Software engineer with 4 years of experience in development and maintenance of enterprise systems, REST APIs, and relational databases. Solid background with Node.js, NestJS, TypeScript, and SQL in production environments, from requirements analysis to deployment and support. Currently focused on personal and freelance projects, with emphasis on the Charme Eventos management platform, in production with 200+ active users. Full portfolio available at andreluizsantos.dev.

CAREER HIGHLIGHTS

- Experience developing and maintaining enterprise ERP systems, involved in every stage from requirements analysis to implementation, testing, and production support.
- Development of REST APIs and backend routines for centralizing operational data and generating management reports.
- Implementation of automations for monitoring and displaying operational information, reducing dependency on external tools and cutting operational costs.
- Full-stack web application development with authentication, access control, and end-to-end integration between frontend, backend, and database.
- Undergraduate thesis focused on complete web architecture, business logic, data persistence, and process automation.

Technical Skills

- Languages: TypeScript, JavaScript, SQL, Python, Java.
- Backend: NestJS, Node.js, Express, Prisma ORM, REST APIs.
- Frontend: React, Next.js, React Native, Tailwind CSS.
- Databases: MySQL, Oracle (PL/SQL).
- Integrations and tools: Pagar.me, JWT, Firebase Auth, Playwright, nodemailer, Git

PROFESSIONAL EXPERIENCE

Jr. Software Developer – COPOBRAS S/A. 03/2025 - 01/2026.

Worked on the development and maintenance of modules in the corporate ERP system, implementing improvements and new features in a production environment. Participated in requirements analysis with internal users, implementation, testing, deployment, and ongoing support.

- Built a Node.js + Playwright automation to continuously display operational reports on internal factory TVs, replacing paid third-party software and reducing operational costs.
- Developed the Work Order and Production Queue module, centralizing operational data for a new department and enabling management reports that previously did not exist.
- Delivered customized reports, bug fixes, usability improvements, and new features aligned to business needs across multiple departments.

Software Development Trainee – COPOBRAS S/A. 12/2021 - 03/2025.

Worked on the development and maintenance of the company's legacy ERP using Oracle Forms, Oracle Reports, and PL/SQL, contributing to the evolution of administrative and operational processes.

- Developed custom corporate reports tailored to specific internal department needs.
- Refactored legacy code to standardize critical modules and improve long-term maintainability.
- Created and maintained ERP screens and forms, implementing adjustments and fixes requested by end users.

FREELANCE & RELEVANT PROJECTS

Event Management System – Freelance – CHARME EVENTOS. 01/2026 - Present. (In production)

Management platform that replaced spreadsheets, WhatsApp, Google Drive, and paper in the operations of a graduation events company with over 15 years in business. Stack: NestJS, Next.js, Prisma, MySQL, integrated with Pagar.me. 200+ registered participants and real monthly financial processing.

- Modeled and implemented complete modules: events, participants, finance, attachments, and role-based access control.
- NestJS backend with REST APIs, MySQL persistence, and Next.js frontend, with clear separation of concerns and maintainability.
- Completed integration with the Pagar.me payment gateway, including frontend card tokenization (backend never receives raw card data) and idempotent webhook handling to prevent duplicate financial entries.
- Full case study: andreluizsantos.dev/projects/charme

Facial Recognition Script for Photo Organization – Freelance – CHARME EVENTOS. 11/2025. (In production)

Python solution to automate photo organization, detecting faces and grouping images by person.

- Used OpenCV and face_recognition (dlib) to detect faces and create automatic groupings by identified person.
- Significantly reduced manual sorting time, allowing the team to focus on validation and final naming.

Clinic Management System – Academic Project (Final Thesis). 06/2024 - 12/2024.

Web application for managing medical clinics: scheduling, patient records, professional registration, and administrative reports. Developed as the undergraduate thesis with a focus on complete web architecture.

- Built with React, Node.js/Express, and MySQL — full backend, frontend, and relational data model.
- JWT authentication with role-based access control, complete scheduling flow, and patient/professional management.
- Automated appointment reminders and confirmations via email using node-cron and Nodemailer, plus custom administrative reports.

EDUCATION

B.Sc. in Information Systems – Universidade Barriga Verde (UNIBAVE) – Orleans, SC | 2021 – 2024 Key subjects: Data Structures, Databases, Software Engineering, Web Development, Object-Oriented Programming, Mobile Development.

LANGUAGES

Portuguese – Native

English – Advanced (reading, writing, and conversation; technical courses and daily reading in English)

RELEVANT COURSES

- Mathematics for Machine Learning: Linear Algebra – Imperial College London (Coursera), 2025
- Java: Backend Development with Spring Boot – Rocketseat, 2023

- Java: Academic tutoring monitor, 60h – UNIBAVE, 2022, 2023, 2024