

Matheus Senas de Cristo

84 992112402 • cristo.matheus@outlook.com
linkedin.com/in/matheuscrisdev • github.com/MatheusSCristo

Professional Summary

Full Stack Developer with experience in NestJS, Node.js, React and TypeScript. I work on modernizing legacy systems, processing asynchronous large data volumes and building features with generative AI, such as agents with RAG and interactive avatars, in addition to using AI tools in the development workflow.

Technical Skills

Backend: Node.js, NestJS, Express, TypeScript, Java, Spring Boot, Python, Prisma ORM

Frontend: React, Next.js, Vue.js, JavaScript, Tailwind CSS, CSS

Data & Infrastructure: PostgreSQL, MySQL, Redis, BullMQ, Docker, AWS (EC2, S3, CloudWatch, SQS, SNS), CI/CD

Architecture & Quality: Clean Architecture, SOLID, DDD, Jest, JUnit, k6

AI: Claude Code, Claude Skills, Codex and Lovable, RAG

Professional Experience

Paciente 360 — Full Stack Developer | NestJS, React, TypeScript, Prisma, Redis, Jest

Dec. 2025 – Present

- Developed an orchestrator of specialized AI agents that supports teachers in creating clinical cases, with RAG over validated protocols and materials, accelerating the production of new scenarios.
- Created a clinical case simulation product with AI avatars (HeyGen, ElevenLabs), where teachers configure scenarios and students interact with real-time feedback, reducing costs by eliminating recordings with real people.
- Extended a legacy fixed-answer module to accept free-form responses evaluated by AI based on defined criteria, making visible in detail each student's difficulties, previously limited to correct and incorrect answers.
- Developed in React the interfaces of new platform products, transforming the flows and layouts from the UX team into screens used by end users.
- Migrated the legacy case player to NestJS and React, enabling cases to be accessed on mobile devices as well, with support from AI tools in development.
- Participated in the reformulation of real-time surveys, using Redis to support high concurrency, with capacity validated in tests for over 1,000 simultaneous participants.
- Fixed vulnerabilities in the legacy system with role-based access control (RBAC), preventing unauthorized access, and created automated tests with Jest to protect critical business rules against regressions.

Solução Tributos — Full Stack Developer | Node.js, React, TypeScript, MySQL, Redis

Feb. 2024 – Dec. 2025

- Automated the import of five years of tax data from 167 municipalities in RN via SEFAZ-RN API. A manual process of approximately 20 days now takes about 1 hour, with fewer errors.
- Optimized processing of large batches of invoices with duplicate handling and idempotency, allowing batches to be reprocessed without duplicating records. Used load tests with k6 to identify bottlenecks and optimize workers.
- Implemented queues with BullMQ and Redis, with retries and automatic task recovery, preventing loss of processing after failures, and optimized SQL queries and indexes to speed up aggregations over millions of records.
- Structured a multi-tenant architecture with data isolation and shared infrastructure between clients, contributing to a 40% reduction in infrastructure costs.
- Developed React interfaces that compare data sources and facilitate auditors in identifying divergences in municipal transfers, such as ICMS, FUNDEB, royalties and FPM.
- Collaborated with the Tech Lead on technical decisions and with tax auditors on defining features aligned with daily audit work, in addition to participating in proof-of-concept in bidding processes.

MatrículaAI - IMD/UFRN — Junior Developer | Java, Spring Boot, PostgreSQL, Vue.js, JUnit

Jul. 2023 – Feb. 2024

- Designed the architecture and developed the backend from initial structure, in a team of three members, to support enrollment planning and gather interest in courses as input for course offering by the coordination.
- Implemented enrollment simulation according to UFRN official rules, validating schedule conflicts and prerequisites before enrollment, with REST APIs in Spring Boot, modeling in PostgreSQL and automated tests with JUnit.
- Integrated academic data and institutional authentication via UFRN API and OAuth2, enabling login with SIGAA account, and contributed to creating interfaces in Vue.js. Project presented at VI Tecnicamente (STI/UFRN).

Languages

- Portuguese - Native
- English - C1

Education

Federal University of Rio Grande do Norte
Bachelor's Degree in Information Technology

Natal, RN
Mar. 2024 – Dec. 2026 (Expected)