Luiz Castro

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EXPERIENCE

Full-Stack Developer September 2025 – Present

Berolab | *Community Platform* | Berolab.app platform

- Engineered an AI-powered mentoring bot utilizing Retrieval-Augmented Generation (RAG) and Vector DBs, enhancing user onboarding and engagement.
- Developed high-performance frontend features using Next.js, ensuring 100% accessibility compliance.
- Optimized PostgreSQL database queries and API response times within a serverless architecture environment.
- Collaborated directly with founders to translate business requirements into technical specifications for the MVP launch.

Full-Stack Developer April 2025 – Present

Edenred

- Modernized legacy Angular applications by implementing lazy loading and code splitting, resulting in improved load times and user retention.
- Developed robust RESTful APIs using Spring Boot and Node.js to support high-volume transaction processing.
- Reduced technical debt by refactoring core modules and introducing strict TypeScript typing across the codebase.
- Maintained complex Oracle and PostgreSQL databases, writing optimized SQL for data-heavy reporting modules.

QA Engineer November 2024 – April 2025

DBC Company

- Reduced build and deployment time from 30 to 12 minutes by optimizing GitHub Actions CI/CD pipelines.
- Optimized internal event management workflow, cutting team communication overhead by 50% through automation.
- Implemented parallelized test execution on Google Cloud, increasing feedback speed for the development team.

FEATURED PROJECTS & OPEN SOURCE

SmartDocs (Ideatrace) | github.com/ideatrace-ai/smartdocs

Open-Source AI Solution for automated documentation

- Architected an event-driven system using RabbitMQ and Bun/ElysiaJS to handle asynchronous AI processing.
- Integrated local LLMs (Ollama) to ensure data privacy while delivering accurate meeting transcriptions.
- **Metric:** Achieved 690+ GitHub contributions in the last year, actively maintaining this and other repositories.

Point do R10 | Freelance project

Sports Coordination Platform

- Delivered a full-stack scheduling application using Next.js and Express, handling real-time bookings for sports courts.

TECHNICAL SKILLS

- **Languages:** Java, TypeScript, JavaScript, SQL.
- **Frontend:** React, Next.js, Angular, Tailwind CSS, HTML5/CSS3.
- **Backend:** Spring Boot, Node.js, NestJS, Express, ElysiaJS, REST APIs.
- **Database & Infra:** PostgreSQL, Oracle, MongoDB, Docker, GitHub Actions, AWS/GCP, RabbitMQ.
- **Concepts:** Microservices, Event-Driven Architecture, CI/CD, Agile/Scrum.

EDUCATION

Bachelor of Science in Information Systems | 2021 – Present

IFBA – Instituto Federal da Bahia

- Focus: Software Architecture. Thesis: "Ideatrace - Event-driven architecture for AI-powered documentation."