
Igor de Castro

MID-LEVEL FULL STACK DEVELOPER | JAVA | SPRING BOOT | ANGULAR | MODERNIZATION

Goiânia, GO, Brazil | +55 (62) 98643-0079 | igorpcferreira@gmail.com

linkedin.com/in/igor-cferreira | github.com/igorpcferreira | igordecastro.com.br

PROFESSIONAL SUMMARY

Mid-Level Full Stack Developer with over four years of professional experience in technology, working continuously in software development since 2022. At Minsait, an Indra Group company (Spain), contributes to large-scale enterprise systems for public healthcare, traffic, and defense. Strong experience with Java, Spring Boot, Quarkus, Angular, Vue, TypeScript, PostgreSQL, and Oracle. Contributes to the modernization of SINGRA 2 (Brazilian Navy), migrating a legacy Angular 6/DWR architecture to Angular 21, REST/JSON APIs with JWT Bearer authentication, and Spring Boot 4 with Java 25. Experience with SonarQube, automated testing, technical analysis, business rules, integrations, relational databases, and agile methods. Personal projects emphasize privacy, performance, accessibility, and measurable quality.

TECHNICAL SKILLS

Backend: Java 11/21/25, Spring Boot 2/3/4, Quarkus, REST APIs, JPA/Hibernate, Maven, MapStruct, Node.js, NestJS

Frontend: AngularJS, Angular 6/21, React 19, Next.js 16, Vue 2, TypeScript, JavaScript, HTML, CSS, Tailwind CSS

Data and infrastructure: PostgreSQL, Oracle, Microsoft SQL Server, Redis, Docker, Flyway, Git, Bitbucket/GitLab, Jenkins, Bamboo

Quality and architecture: SonarQube, JUnit, Vitest, Playwright, unit/integration/E2E testing, Clean Architecture, DDD, Strategy, Agile/Scrum

PROFESSIONAL EXPERIENCE

MINSAIT (INDRA GROUP) | Mid-Level Full Stack Developer | Mar 2025 - Present

Goiânia, GO | Hybrid | Software Factory

- Development and maintenance of large-scale enterprise solutions in a software factory environment, covering technical analysis, estimation, implementation, testing, validation, and support.
- Implementation of APIs, business rules, validations, integrations, and data access with Java, Spring Boot, and Quarkus, plus interfaces in Angular, Vue, and TypeScript.
- Creation, analysis, and optimization of SQL queries in PostgreSQL and Oracle, with a focus on consistency, traceability, and performance.
- Simultaneous work across legacy and modern stacks, contributing to incremental improvements and technology migrations without compromising existing business rules.
- Responsible for running and monitoring SonarQube in the Brazilian Navy project, supporting the identification of vulnerabilities, code smells, duplication, and technical debt.
- Daily collaboration with analysts, QA, architects, DBAs, and technical managers in dailies, planning, reviews, and retrospectives.

SELECTED PROJECTS

- SINGRA 2 / SINGRA21 Modernization | 13/04/2026 - Present | MAR-DAbM / Brazilian Navy: Migration of the Angular 6/DWR frontend to Angular 21 and REST/JSON APIs with JWT Bearer authentication; backend upgrade to Java 25 and Spring Boot 4 while preserving service, business, and persistence layers. Node.js 20.19.0 and Oracle.
- Legacy SINGRA 2 | 10/09/2025 - 10/04/2026 | MAR-DAbM / Brazilian Navy: Enhancement and support of enterprise modules with Java 21, Spring Boot 2.x, Angular 6.1.0, Node.js 10.16.0, and Oracle, plus DWR, Redis, Caffeine, and Guava.
- SIDOAR | 12/04/2025 - 10/09/2025 | Goiás State Department of Health: Integrated Organ Donation and Recipient Evaluation System. Java 11, Spring Boot, AngularJS, and PostgreSQL.
- SRIE | 10/12/2025 - 04/02/2026 | Goiás State Department of Health: Immunobiological Products System for People with Special Conditions. Java 21, Spring Boot, AngularJS, and PostgreSQL.
- BATEU - Citizen/Police Officer | 02/05/2025 - 03/06/2025 | CELEPAR: State Traffic Accident Registry (Paraná Military Police). Java 21, Quarkus, Vue, and PostgreSQL.
- SISESG | 25/03/2025 - 12/04/2025 | Goiás State Department of Health: Health School System. Java 11, Spring Boot, AngularJS, and PostgreSQL.

DOCNIX | Full Stack Developer | Aug 2022 - Mar 2025

Goiânia, GO | Hybrid | Internal promotion

Junior Full Stack Developer: Apr 2024 - Mar 2025

Full Stack Developer Trainee: Jun 2023 - Apr 2024

Full Stack Developer Intern: Aug 2022 - Jun 2023

- Promoted internally from Intern to Trainee and Junior Full Stack Developer, taking on greater autonomy and responsibility for more complex tasks.
- Development and enhancement of DocNix, an integrated quality management, organizational excellence, and business process platform, using Java, Spring Boot, AngularJS, and Angular 17.

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- Implementation and maintenance of APIs, business rules, data processing, inter-module communication, reusable components, directives, and UX improvements.
 - Creation and optimization of SQL queries in PostgreSQL, Oracle, and MySQL, as well as analysis and resolution of real customer incidents in staging and production.
 - Contributed to software architecture, Docker environments, Git version control, and agile ceremonies, collaborating with cross-functional teams on product delivery and support.

FUNDAÇÃO JAIME CÂMARA | [Technical Support](#) | Apr 2022 - Jul 2022

Goiânia, GO | On-site

- On-site technical support, system installation and configuration, preventive maintenance, and hardware and software diagnostics.
- Remote support and incident resolution, reducing downtime for internal users.

PROJECTS AND ENTREPRENEURSHIP

Kyber Tech - [somoskyber.com.br](#)

[Co-founder and Full Stack Developer](#) | 2026 - Present

- Technology studio focused on websites, automation, artificial intelligence, and digital products. Direct involvement from needs discovery and solution definition through development, deployment, and client relationship management.

Technologies: Web development, automation, applied AI, product development, and consultative client service

Compressify - [compressify-free.vercel.app](#)

[In-browser image compression and conversion](#)

- Static, offline application for batch compression and conversion of JPG, PNG, WebP, and AVIF images. All processing runs client-side using Web Workers and WebAssembly, with no files uploaded to servers.
- 389 unit and integration tests, 115 E2E tests across Chromium, Firefox, and WebKit; Lighthouse scores of 95 for performance and 100 for accessibility, best practices, and SEO. In a measured batch, reduced 11.4 MB to 1.6 MB (-86%).

Technologies: Next.js 16, React 19, TypeScript 6, Tailwind CSS 4, Zustand, WebAssembly, Vitest, and Playwright

QR Code Studio - [qr-code-studio-free.vercel.app](#)

[Static vector QR code generator with automatic verification](#)

- Client-side product supporting nine content types, including Pix BR Code, SVG/PDF/PNG export, print-ready frames, customization, local history, and batch generation from CSV files.
- Each QR code is rasterized and decoded before export. Includes 369 unit and integration tests and 86 E2E tests, with Lighthouse scores of 100 for accessibility, best practices, and SEO.

Technologies: Next.js 16, React 19, TypeScript strict, Tailwind CSS 4, pdf-lib, jsQR, Vitest, and Playwright

FitJourneyAI - [github.com/lgorpcferreira/fitjourneyai](#)

[Bachelor's Thesis - AI-powered fitness tracking assistant on Telegram](#)

- Chatbot featuring onboarding, weight and body measurement tracking, workout completion logging, progress charts, summaries, and AI-generated workouts, including audio processing with Whisper.
- Architecture based on Clean Architecture and the Strategy Pattern, using Spring Boot, PostgreSQL, Redis, n8n, OpenAI, Docker, and the Telegram API.

Technologies: Java, Spring Boot, PostgreSQL, Redis, n8n, OpenAI/Whisper, Docker, and the Telegram API

EDUCATION

PUC GOIÁS | [Bachelor of Science in Computer Science](#) | 2021 - 2026

Pontifical Catholic University of Goiás | Goiânia, GO

- Bachelor's Thesis: FitJourneyAI, an AI-powered fitness tracking assistant on Telegram.
- Academic tutor during the 2021/2 semester, supporting students in programming and computational logic.
- Participated in problem-solving activities, including the Brazilian Informatics Olympiad and the SBC Programming Marathon.

SELECTED COURSES AND CERTIFICATIONS

- RESTful APIs from Zero to AWS: Spring Boot 3, Java, and Docker (2024)
- Domain-Driven Design: Tactical Modeling and Patterns (2023)
- Authentication and Keycloak (2023)
- Docker for Developers: Docker Swarm and Kubernetes (2023)
- TDD and Java: Automated Testing with JUnit (2022)
- Brazilian Data Protection Law (LGPD) Applied to Management and Quality; ISO 9001 QMS (2024)

LANGUAGES

Portuguese: Native | English: Advanced (C1)