Ricardo Morim

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PROFESSIONAL SUMMARY

Backend-focused Software Engineering student with professional, freelance, personal and curricular experience, where I've applied Spring Boot, CI/CD automation, Docker and agile methodologies in real-world systems. Delivered secure, scalable authentication library with CI/CD pipelines, that test, scan and deploy to Maven Central and GitHub Packages.

SKILLS

- **Backend:** Spring Boot, .NET
- **Databases:** PostgreSQL, MongoDB, Redis
- **Cloud/DevOps:** Docker, GitHub Actions, AWS (ongoing)
- **Languages:** Portuguese, English

WORK EXPERIENCE

INESC TEC – Software Engineering Summer Internship   **07/2025 – 09/2025**

- **Developed** an AR indoor navigation Android prototype as feasibility study in 4 weeks, delivering working MVP that successfully guided users through multi-floor environments using QR location and compass orientation.
- **Demonstrated** technical viability with reliable navigation performance, proving AR wayfinding concept suitable for potential deployment in museums and hospitals.
- **Exceeded** original scope by adding voice guidance and extensible Python backend architecture, receiving positive feedback from technical advisors on independent execution.

MATCH DINNER MONDAYS – Freelance Full Stack Developer   **10/2024 – 11/2024**

- **Optimized** user experience through WebP image compression and lazy loading, reducing profile image sizes from 3-5 MB to ~200 KB and achieving sub-second load times.
- **Implemented** a comprehensive SEO strategy achieving first-page on Google rankings for target keywords, plus PWA functionality for improved mobile experience.
- **Collaborated** directly with client through iterative development adapting feature complexity based on user feedback and business requirements.

PROJECTS

AUTH LIBRARY – Spring Boot, PostgreSQL, Redis, JWT

- **Published** a plug-and-play authentication library for Spring Boot (Maven Central, Github Packages), enabling zero-code integration via properties configuration.
- **Engineered** for **flexibility** with polymorphic patterns, allowing full-service replacement with a single bean override.
- **Secured** systems with CSRF protection, Redis-backed blocklist/rate-limiter, HTTPS-enforced JWT cookies, aligned with OWASP best practices, with **only 12ms request overhead**.
- **Automated CI/CD** with GitHub Actions: tests, CodeQL, Dependabot and branch protections, blocking unsafe code, which allowed me to **fix 30+ CodeQL vulnerabilities**.
- **Benchmarked** performance with **100k users**: indices improved query **latency** by **22%**, **throughput** by **21%** and **pagination speed** by **73x**.

STOCK INFORMATION PLATFORM – Next.js, Node.js, MongoDB, Tailwind CSS

- **Built** a real-time stock portfolio tracker, integrating 4 financial data APIs with Redis caching, reducing dashboard load times from 20+ seconds to sub-second for cached requests.
- **Implemented** parallel API processing and intelligent fallback strategies, handling data inconsistencies across multiple market data providers.

EDUCATION

INSTITUTO SUPERIOR DE ENGENHARIA DO PORTO   **09/2023 – 07/2026**
Bachelor of Science in Software Engineering.
Currently enrolled: Starting BeSA Program (Sept 2025) to earn AWS Solutions Architect Associate certification

ONLINE COURSES

CS50X (Harvard); CS50AI; React + Firebase (Udemy); React (HKU); Deep Reinforcement Learning (Hugging Face, ongoing).