

JOÃO PEDRO CARNEIRO DE MORAIS

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TECHNICAL SKILLS

Backend: Java, Spring Boot, Node.js, Express.js, Python, REST APIs, WebSockets

Frontend: React, Next.js, Vue3, TypeScript, JavaScript, Swift/SpriteKit, Tailwind CSS

Data & DevOps: PostgreSQL, SQL Server, MongoDB, Docker, AWS (Lightsail, S3, CloudFront), Git, CI/CD, Liquibase

AI & Search: RAG, MCP, Qdrant, Redis, BullMQ, Drizzle ORM

EXPERIENCE

Prozis

Porto, Portugal

Full-Stack Developer

July 2025 – Present

- Core developer on **Prozis Hub**, one of 2 largest internal systems at Europe's leading sports nutrition company, building enterprise PLM software with **Vue3/Spring Boot**
- Entrusted with **production deployment responsibilities** typically reserved for senior engineers, independently shipping features across product development, QA, and operations teams
- Optimized SQL Server queries and indexing strategies, **reducing data processing time by 35%** through JPA native queries and Liquibase migrations

Flavibyte

Chaves, Portugal

Side Projects

Jan 2025 – Present

- Registered a small company to take on freelance projects outside of my day job
- Rebuilding **GraficaSinal.pt** — e-commerce site for a print company, using Next.js frontend and Express backend
- Built an internal platform to manage clients and track project health, deployed on **AWS Lightsail** with Docker, Nginx, S3/CloudFront, and GitHub Actions CI/CD

BRAINSTORM Labs

Remote

Software Developer Intern

Jan 2025 – June 2025

- Built real-time video conferencing platform with **React** and **Agora.io SDK**
- Designed PostgreSQL schema and Node.js/Express backend; containerized with **Docker** for consistent deployment

PROJECTS

Tiburcio | *TypeScript, Node.js, Vue 3, Hono, MCP, RAG, Qdrant, PostgreSQL, Docker*

- Open-source RAG agent that indexes codebases into a Qdrant vector database, answering developer questions grounded in actual code. Ships as a web chat UI and an MCP server for Claude Code
- Hybrid search with BM25 + dense vectors (RRF fusion), scheduled re-indexing via BullMQ/Redis, 162 automated tests. MIT licensed, being adopted at Prozis

Hospital Management App | *React, .NET/C#, Prolog, SQL, REST API, Vercel*

- Final-semester university group project (LAPR5). Microservices architecture with .NET backend, React frontend, and a Prolog planning module for scheduling logic. Deployed on Vercel

Queima25 | *Swift 5+, SpriteKit, iOS 14+*

- iOS party game supporting up to 15 players with five challenge types. Built with SpriteKit for smooth animations, optimized for landscape group play on a shared screen

EDUCATION

Instituto Superior de Engenharia do Porto (ISEP)

Porto, Portugal

Bachelor of Science in Computer Engineering

Sept 2021 – Sept 2025

- Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Distributed Systems, Computer Networks