

João Pedro Baptista

Backend Software Engineer

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EMPLOYMENT HISTORY

Uphold, Backend Software Engineer - Junior

08/2025 – Present | Braga, Portugal

Core Technologies: [Go](#), [Node.js](#), [JavaScript](#), [Jira](#)

- Maintaining and developing an internal application in **Go** responsible for automating and orchestrating the movement of assets across exchanges, wallets, and custodians such as Binance, OKX, Fireblocks, KuCoin, and Coinbase.
- Collaborating with the FinOps team and other engineering teams to coordinate tasks, resolve incidents, and ensure the operational reliability of systems.
- Using tools such as **K9s** for service monitoring, **Datadog** for metrics and log analysis, and **Temporal** for observing and maintaining workflows.
- Contributing to related projects, supporting continuous improvements and new integrations within Uphold's internal ecosystem.

Checkmarx, Backend Software Engineer - Intern

06/2024 – 05/2025 | Braga, Portugal

Core Technologies: [.NET Core](#), [C#](#), [Go](#), [JavaScript](#), [Jira](#)

- Engineered **grammars** and **parsers** in **.NET Core (C#)** to construct Abstract Syntax Trees (**ASTs**) for code flow analysis, identifying vulnerabilities such as SQL Injection (CWE-89), Reflected and Stored Cross-Site Scripting (XSS) (CWE-79), Buffer Overflows (CWE-120), and Code Injection (CWE-94).
- Developed APIs using **Go** and **JavaScript** within a **microservices** architecture, enhancing security analysis capabilities.
- Used tools such as **Jira** for agile project management, **Azure DevOps** and **GitHub** for source code management and collaborative development and **Confluence** for documentation.
- Developed a Roslyn-based static analysis tool in C# to enforce coding best practices, implementing approximately 20 rules (e.g., removal of unused variables, enforcement of explicit type declarations).

EDUCATION

Bachelor's in Software Engineering, University of Minho

09/2021 – 06/2024 | Braga, Portugal

Core Technologies:

Web Development: ASP.NET Core, Express.js, Vue.js

Programming Languages: C#, C++, Java, Python, C, Haskell

Database Management: SQL

SKILLS

[.NET Core](#)

[C#](#)

[Go](#)

[Node.js](#)

[SQL](#)

[MongoDB](#)

[Jira](#)

[Azure DevOps](#)

LANGUAGES

Portuguese — Fluent

English — B2 Certificate (British Institute of Braga)

Below, you'll find three selected projects that showcase my skills and experience, developed in both personal and academic contexts. For a more comprehensive portfolio and access to all my projects, including source code, please visit my online [Portfolio](#) or my [GitHub](#) profile (links are in the CV header).

PROJECTS

Instant Menu - barDoMar.instantmenu.pt, Personal

05/2025 – present

Core Technologies: [Next.js](#), [React](#), [TypeScript](#), [MongoDB Atlas](#), [Cloudflare R2](#)

Overview: After completing my internship at Checkmarx, I channeled my drive for continuous learning into developing InstantMenu, a dynamic and multilingual digital menu application designed for restaurants seeking a modern, scalable solution for their digital presence.

Data Management: InstantMenu leverages MongoDB Atlas for flexible, NoSQL menu data storage with intelligent caching strategies using Next.js 15's Data Cache (1-hour TTL with tag-based invalidation). Images and logos are stored in Cloudflare R2 for cost-effective, global distribution with zero egress fees and S3-compatible APIs. This architecture ensures fast load times while maintaining the ability to instantly update content across all locations.

Frontend: Engineered with Next.js 15's App Router, React 18, and TypeScript, the frontend delivers a responsive and visually appealing digital menu experience. Key features include full multilingual support with locale-based routing, light/dark theme toggling with smooth transitions, real-time search functionality with highlighted results, collapsible category sections with animations, and custom subdomain support (e.g., restaurant-name.instantmenu.pt). The modular CSS architecture and responsive design ensure seamless browsing across all devices, from mobile to desktop.

Servindustria Web App - servindustria.pt, Personal

Core Technologies: [ASP.NET Core](#), [C#](#), [Entity Framework Core](#), [SQL Server](#)

Overview: Developed a comprehensive full-stack company website and Content Management System for Servindustria, managing company information, services, and contacts.

Backend: Engineered with **ASP.NET Core MVC** and **C#**, it provides a robust backend solution handling all server-side logic, routing, and business operations, supporting the dynamic content of the website.

Database: Integrated with **SQL Server** using **Entity Framework Core** for efficient data persistence and management. The database stores critical company information, service details, and contact data, ensuring data integrity and accessibility.

Authentication & Authorization: Secured administrative access through a robust authentication system, allowing authorized personnel to manage website content and configurations securely.

Front-end Integration: Utilized **Razor Views** for server-side rendering, generating dynamic HTML pages that provide an intuitive and responsive user experience for visitors, while also serving as an administrative interface for content management.

University Courses Platform Manager, Academic

Core Technologies: [Node.js](#), [Express.js](#), [REST](#), [MongoDB](#)

Overview: Developed a full-stack online course management system during the Web Engineering course at the University of Minho.

Backend: Built with **Node.js** and **Express** for **RESTful API** handling; implemented robust routing for **CRUD** operations across resources like courses, users, enrollments, and permissions.

Database: Integrated with **MongoDB** to store and query structured data effectively.

Authentication & Authorization: Secured platform access through mechanisms like **JWT**-based authentication and role-based permissions, safeguarding endpoints against unauthorized use.

Front-end Integration: Designed to interface cleanly with a front-end (**JavaScript/HTML/CSS**-based), enabling administrators, instructors, and students to interact via REST API calls.