

João Pedro Baptista *Software Developer*

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📁 EMPLOYMENT HISTORY

Checkmarx, Software Developer 🔗

06/2024 – 05/2025 | Braga, Portugal

Core Technologies: .NET Core, C#, Go, JavaScript, ASTs, Jira, Azure DevOps

Summer Internship (June – August 2024):

- 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).

Professional Internship (August 2024 – May 2025):

- 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;
- I also utilized tools such as **Jira** for agile project management, **Azure DevOps** and **GitHub** for source code management and collaborative development, **Confluence** for documentation, **Jenkins** for automating CI/CD pipelines, and **ArgoCD** for implementing GitOps workflows in Kubernetes environments.

ComerAqui, Food Delivery Courier 🔗

11/2020 – 09/2021 | Barcelos

- During my 12th grade of school, I ventured into food delivery. This experience enriched my skills in **time management**, **customer interaction**, and working **under stress**.

🎓 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, Personal

05/2025 – present

Core Technologies: [Next.js](#), [React](#), [TypeScript](#)

Overview: After completing my internship at Checkmarx, I channeled my drive for continuous learning into developing **InstantMenu**, a dynamic and multilingual digital menu application.

Data Management: InstantMenu efficiently manages menu data directly from **local JSON files**. This approach was chosen for its simplicity and directness, as I didn't identify a need for a traditional database in this project's scope. This method allows for straightforward organization of product categories, descriptions, prices, and images.

Frontend: Engineered with **Next.js**, **React**, and **TypeScript**, the frontend provides a robust and visually appealing digital menu. It handles dynamic content rendering, multilingual support, and interactive features like theme toggling, ensuring a seamless Browse experience for customers across various devices.

Servindustria Web Application - servindustria.pt, Personal

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

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](#), [REST](#), [MongoDB](#), [JWT](#)

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.