João Pedro Baptista *Software Developer*

✉ joaopedromotabaptista2003@gmail.com   📞 +351 913 794 031   📍 Barcelos, Portugal

🔗 joaobaptista03.github.io   ⊙ github.com/joaobaptista03   in linkedin.com/in/joaobaptista03

💼 EMPLOYMENT HISTORY

Checkmarx, *Backend Software Developer* 🔗   06/2024 – 05/2025 | Braga, Portugal
Core Technologies: .NET Core, C#, Go, JavaScript, 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 - barDoMar.instantmenu.pt, *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 (The root endpoint isn't available at the moment).

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 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, 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.