



## Diogo Alexandre Pinheiro Pinto

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### ABOUT ME

**Computer Science graduate** with a strong focus on developing technological solutions and solving problems efficiently. Experienced in **software development**, particularly in building applications optimized for **user experience and performance**. Alongside technical skills, I have developed knowledge in Information Systems Analysis & Design and Project Management, giving me a strategic understanding of technology and its organizational impact.

A dedicated and results-driven professional, motivated by transforming **technical knowledge into real, valuable solutions**. I look for environments that foster continuous learning, innovation, and collaboration.

### WORK EXPERIENCE

#### **Bane Tech** – Portugal

Country: Portugal | Website: [banetech.net](https://banetech.net)

##### **Full-Stack Developer**

[ 06/2025 – 09/2025 ]

Development of a full enterprise monitoring system using **Angular, Node.js, Express.js, TypeScript, and MySQL**.

Creation of responsive interfaces with **interactive dashboards**, real-time data visualization, and **dynamic filters**.

Optimization of database architecture and queries to ensure **high performance in high-concurrency environments**.

Execution of load and **scalability testing (K6)**, identifying and resolving performance bottlenecks.

Collaboration in an **Agile/Scrum** environment with bi-weekly sprints, contributing to sprint reviews and continuous process improvement.

Preparation of **comprehensive technical documentation**, including endpoint specifications, security guidelines, and deployment procedures.

#### **Valorpneu** – Portugal

Country: Portugal

##### **Brand Promoter (Event)**

[ 11/2024 ]

Led a promotional campaign to raise awareness of Valorpneu through interactive quizzes, prize distribution, and direct engagement with the public. Focused on environmental awareness, brand image reinforcement, and effective teamwork with partners and event organizers.

## EDUCATION AND TRAINING

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### Bachelor Degree in Computer Science

*Politécnico de Santarém* [ 2022 – 2025 ]

Country: Portugal | Website: <https://www.ipsantarem.pt/> | Field(s) of study: Information and Communication Technologies: • Software and applications development and analysis | Final grade: 15 | Level in EQF: EQF level 6

**Relevant Courses:** Multimedia Applications – 19, Systems Integration – 18, Internet Technologies – 18, Project Management – 16, Databases II – 16.

The degree combined technical skills with knowledge in management, ethics, and human-computer interaction. Emphasis on practical projects in the areas of mobile applications, IoT, and systems security, providing a strong foundation for the technology market.

## LANGUAGE SKILLS

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**Mother tongue(s):** Portuguese

**Other language(s):**

**English**

**LISTENING C2 READING C2 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## SKILLS

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Programming Languages: C/C++, Java, JavaScript, PHP, HTML, CSS, SQL / Python - Flask / Angular / Canva, Figma / IDE AndroidStudio / C Arduino / Database systems – MSSQL, MySQL, NoSQL, MongoDB / MVC, UML, RESTful, Object-to-Relational Database Design, il8n / Python (computer programming) / SoftSkills(Git, Github) / Node.js e NPM

## CERTIFICATIONS

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[ Frontend Masters ]

**The Last Algorithms Course You'll Need**

## PROJECTS

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**Browser Extension — Scroll-Based Video Volume Control** Development of a browser extension allowing users to control video volume through mouse scrolling, enabling a smoother and more intuitive interaction. The solution detects embedded video players on web pages and adjusts volume in real time without interfering with native controls.

**Technologies:**

- JavaScript, HTML, CSS, DOM API, Chrome Extension API

**Key Features:**

- Automatic detection of video players
- Continuous volume adjustment via mouse scroll
- Background execution and script injection
- Minimal UI and transparent user experience
- Fully customizable volume overlay

Links: [https://github.com/Dpinto9/Extension\\_scroll-volume-videos](https://github.com/Dpinto9/Extension_scroll-volume-videos) | [https://chromewebstore.google.com/detail/ekkkmkjlkfjdjingbmmagnncglbgao?utm\\_source=item-share-cb](https://chromewebstore.google.com/detail/ekkkmkjlkfjdjingbmmagnncglbgao?utm_source=item-share-cb)

**Smart Access Control System (IoT + Cloud)** Development of a complete access-control system integrating an IoT device (ESP32) with a cloud platform (Google Cloud). Features QR code scanning, PIN and multi-factor authentication, secure API communication and real-time event logging for centralized access management and remote door unlocking.

**Technologies:**

- **Backend:** Python Flask, HTML, JavaScript
- **Database:** Firebase
- **Security:** JWT, 2FA, QR code generation & validation
- **IoT:** ESP32, C/C++ (Arduino), camera module
- **Tools:** Postman, Git, Docker

**Key Features:**

- REST API for authentication & access management
- Dynamic QR code generation and validation
- Multi-factor authentication (QR + PIN + 2FA)
- Real-time communication between ESP32 & cloud API
- Remote physical door unlocking & real-time logs

Links: <https://github.com/Dpinto9/LockAPI-ESP32> | <https://github.com/Dpinto9/ApiLock>

**Wishlist Web App** Full-stack web application for managing personal wishlists, with collaborative item reservation and real-time synchronization.

**Technologies:**

- Node.js, Express, HTML, CSS, JavaScript, Firebase

**Key Features:**

- Create, edit and remove wishlist items
- Real-time data sync via Firebase
- Responsive and intuitive web interface
- Item categorization and organization
- Public deployment for real use

Link: <https://github.com/Dpinto9/Wishlist-App>

**Sports Facilities Management System (API + CLI Client)** RESTful API in .NET 8 for stadium management, featuring CRUD operations, authentication, and database integration. Includes a command-line application for interacting with the API and generating reports in multiple formats.

**Technologies:**

- C#, .NET 8, Entity Framework, CSV/XML/HTML/XSLT, Postman, Visual Studio

**Key Features:**

- Stadium management controllers & authentication
- Database integration via Entity Framework
- Configuration through environment files
- CLI client for authentication & data processing
- Automatic report generation (CSV, XML, HTML, XSLT)

Link: <https://github.com/Dpinto9/EuroAPI/tree/main>

**Token-Based Game Management Platform** Web platform for game management with internal token system, progression logic, and reward mechanics, including an admin panel and data persistence.

**Technologies:**

- PHP, MySQL, JavaScript, HTML, CSS, Bootstrap

**Key Features:**

- User registration and authentication

- Token issuance and consumption
- Reward and progression logic
- Admin dashboard & responsive UI

Link: <https://github.com/Dpinto9/PHP-management>