

# Diogo Pinto

SOFTWARE DEVELOPER · WEB DEVELOPER

Lisbon, Portugal

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## Summary

**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.

## Experience

### BANE TECH, Lda.

Lisbon, Portugal

FULL-STACK DEVELOPER

Jun. 2025 - Sep. 2025

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

Lisbon, Portugal

BRAND PROMOTER (EVENT)

Nov. 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

### Instituto Politécnico de Santarém (IPS)

Santarém, Portugal

LICENTIATE DEGREE IN COMPUTER SCIENCE, 15

Sep. 2022 - Out. 2025

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

## Skills

### Programming Languages

Python, Java, JavaScript, C/C++, PHP, SQL

### Web Frameworks & Runtimes

Node.js (NPM), Express, Flask, React, Angular

### Frontend

HTML5, CSS, TypeScript (from job entry)

### Databases

MySQL, MongoDB (NoSQL), Google Firestore

### Tools & Version Control

Git, GitHub, Android Studio, Figma, K6 (Testing)

### Concepts & Architecture

RESTful APIs, MVC, UML, Agile/Scrum

### Languages

Portuguese (Native), English

## Projects

### Browser Extension — Scroll-Based Video Volume Control

Lisbon, Portugal

PERSONAL PROJECT

Nov. 2025

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; Customizable volume overlay.
- Links:** [GitHub](#) | [Chrome Web Store](#)

## Smart Access Control System (IoT + Cloud)

IOT AND CLOUD COURSE

Santarém, Portugal

2025

Development of a complete access-control system integrating an IoT device (ESP32) with a cloud platform. Supports QR code scanning, PIN and multi-factor authentication, secure API communication, and real-time event logging for centralized and remote access management.

- **Technologies:** Python Flask, HTML, JavaScript; Firebase; JWT; 2FA; QR code generation/validation; ESP32 (C/C++, Arduino) with camera module; Postman; Git; Docker
- **Key Features:** REST API for authentication and access management; Dynamic QR code generation and validation; Multi-factor authentication (QR + PIN + 2FA); Real-time cloud communication; Remote physical door unlocking and logging.
- **Links:** IoT Device | Cloud API

## Wishlist Web App

Lisbon, Portugal

FREE LANCER PROJECT

2024

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/remove wishlist items; Real-time synchronization via Firebase; Responsive UI; Item categorization and organization; Public deployment for real use.
- **Link:** GitHub

## Sports Facilities Management System (API + CLI Client)

Santarém, Portugal

SYSTEMS INTEGRATION COURSE

2024

RESTful API built in .NET 8 for stadium management, featuring authentication, CRUD operations, and database integration. Includes a CLI client 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 controllers & authentication; Database integration via Entity Framework; Environment-based configuration; CLI for data processing; Automatic report generation (CSV, XML, HTML, XSLT).
- **Link:** GitHub

## PHP Management Platform

Lisbon, Portugal

PERSONAL PROJECT

2024

Web platform for management with an internal token system, including an admin panel and persistent data storage.

- **Technologies:** PHP, MySQL, JavaScript, HTML, CSS, Bootstrap, WAMP
- **Key Features:** User registration & authentication; Token issuance and consumption; Reward and progression logic; Admin dashboard; Responsive UI.
- **Link:** GitHub