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Education

Master's Degree in Biomedical Engineering

2022- 2024

Polytechnic Institute of Porto - ISEP

BIP Molecular Biotechnology

2023

HELHa - Haute Ecole Louvain en Hainaut

Bachelor's Degree in Biomedical Engineering

2019-2022

Polytechnic Institute of Porto - ISEP

Expertise

Java	MySQL
WildFly	Javascript
HTML	Docker
R	HL7
Solidworks	Health Metrology
Excel	

Language

Portuguese (Native)

English (Level C1)

Spanish (Basic)

Diogo Adão

Biomedical Engineer

I am a Biomedical Engineering graduate with experience in bioinformatics and software development. At the Phenotypic Evolution Group (pegi3s), I worked on the Bioinformatics Docker Images Project, developing DocNRun and Docker Manager to simplify Docker usage. Skilled in Python, Docker, and GUI development, I am adaptable, collaborative, and eager to apply my skills to healthcare innovation.

Experience

2024-Present

Pet Universal | Porto

Fullstack Developer at Pet Universal

Full stack developer of a veterinary management system, with a focus on the lab module and system integration.

Main tasks included backend development in Java (Java 8, WildFly), frontend implementation with Ember.js, and building the Laboratory Information System (LIS) – including HL7 (ORU) message processing with HAPI, PDF report generation, and automated email delivery.

Also handled integration between legacy and modern systems using REST APIs. Technologies used: Java, WildFly, HAPI HL7, Ember.js, MySQL, HTML/CSS/JavaScript.

2023-2024

I3S| Porto

Intern at pegi3s Bioinformatics Docker Images Project

At the Phenotypic Evolution Group (pegi3s), I worked on maintaining the Bioinformatics Docker Images Project – a growing collection of over 100 Docker images for widely used tools in genomics, transcriptomics, proteomics, phylogenetics, and related fields. I reviewed all available images and created standardized test datasets to validate the output of most tools. As part of this work, I developed DocNRun pegi3s, a user-friendly application that allows users to run Docker images without using the command line. I also created Docker Manager, a tool that simplifies the process of removing Docker images from local machines. Both tools are publicly available in the pegi3s repositories.

2022

Centro Hospitalar da Universidade do Porto (CHUP) | Porto

Intern in the Hospital Santo António Quality Cabinet

Management of medical equipment with measuring functions was conducted through specialized platforms. Key activities involved understanding the operations of the department and its associated projects, optimizing the Health Metrology (HM) software, issuing calibration plans, deploying ambient monitoring hardware using DataLoggers, and delivering training to a range of users.

Projects Developed

2021

Smart Closet

This project involved the development of an Android application and a specially designed closet equipped with RGB lights. The objective was to assist colorblind individuals in selecting clothing. Through the app, users could choose desired clothes, and the corresponding LED lights in the closet would illuminate in the color of the selected items, making them stand out from the rest. Additionally, the app would track clothes entering and exiting the closet using RFID tags, providing an organized and user-friendly experience.