ORLANDO JOSÉ CUNHA PALMEIRA

Software Engineer

18/01/2002 Braga, Portugal https://www.linkedin.com/in/orlando-palmeira-725281225/ https://github.com/orlandopalmeira

EDUCATION

Master's Degree (MSc), in Software Engineering

University of Minho

September 2023 – 2025 (Expected) *Braga, Portugal*

- Requirements Engineering;
- Applications Architectures;
- Database administration;
- High-Assurance Interactive Systems;
- Deep learning;
- Ambient Intelligence;
- Agents and Multi-agent Systems;

Bachelor's Degree (BSc), in Software Engineering

University of Minho

October 2020 – June 2023 *Braga, Portugal*

WORK EXPERIENCE

Software Engineer (Research Technician)

DTx - Digital Transformation Colab

September 2024 – December 2025 *Braga, Portugal*

- Development of University Project;
- Master Thesis;

COMPUTER SKILLS

- Main Development Skills

Python | JavaScript | Node.js | Vue.js | Java | C#

- Development Tools – Front-End

Vue.js | JavaScript | HTML5 / PUG | CSS

- Development Tools – Back-End

Node.js | Java | Express | Spring Boot | Python | Flask | C#

- Development Tools – Databases

PostgreSQL | MySQL | MongoDB

- Development Tools - DevOps

Docker | Google Cloud

- Development Tools – IDE

Visual Studio | IntelliJ

- Development Tools – General

Git | LateX | C | Haskell

SOFTSKILLS

Learning Potential | Responsibility and commitment | Team Work | MultiTasking | Motivation | Persistence

LANGUAGES

Portuguese ●●●●●

English ●●●●○

UNIVERSITY PROJECTS

Application to consult legal rulings

Web Engineering

- Description – Web application where it is possible to consult various judicial rulings published by different Portuguese courts.;
- Techs: PUG, Express.js, Passport, Node.js, MongoDB
- GitHub ;
- Classification – 20/20.

Small DNS System

Computer Communications

- Description – This project consists of developing a small DNS system in an emulated virtual network using the CORE emulator.;
- Techs: Python, Core Emulator;
- GitHub ;
- Classification – 20/20.

Database optimization

Database administration

- Description – This project did not consist of an implementation or development of an application or system. In fact, it consisted of analyzing and testing an existing database. It was necessary to use optimization techniques for a relational database (PostgreSQL) and also for PySpark. The result of the project is the use of a set of techniques that allowed databases to significantly improve their performance. Google Cloud was used to create the virtual machines to host the databases.
- Techs: PostgreSQL, Apache Spark, Google Cloud;
- GitHub ;
- Classification – 20/20.

Web application to carry out voting

Applications Architectures & High-assurance Interactive Systems

- Description – Development of a web application whose main functionality is to create and participate in polls in which users can consult the respective results.
- Techs: Javascript, Vue.js, Java, Springboot, MySQL, Locust;
- GitHub ;
- Classification – 19/20.

Laravel.IO Cloud Deployment

Cloud Computing Applications and Services

- Description – Development of Ansible and Kubernetes (GKE) scripts to deploy the Laravel.IO app in a Kubernetes cluster. Load tests were carried out (using Apache JMeter) and the monitoring resources provided by Google Cloud were used.
- Techs: Google Cloud, Kubernetes (GKE), Ansible, Docker, Apache JMeter
- GitHub ;
- Classification – 18.6/20.

Small CDN for video distribution

Network Services Engineering

- Description – This project consisted of developing a small CDN network for video distribution. The Core emulator was used to build a simulated physical network and an overlay network was implemented to distribute content to the various clients.
- Techs: Python, Core Emulator
- GitHub ;
- Classification – 18.1/20.

TOML → JSON conversor

Language Processing

- Description – This project consisted of developing a TOML compiler that converts TOML files to JSON files. The PLY library was used where a grammar and a lexer were implemented to process the input files.
- Techs: Python, PLY (Python Lex-Yacc)
- GitHub ;
- Classification – 17/20.

Other projects in: GitHub