Pedro Alexandre Parreira Primor

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ABOUT ME

I'm a passionate computer scientist with a strong foundation in software development and data analysis. As a junior web developer at PageProof, I'm dedicated to enhancing the mobile user experience and tackling challenges within the PageProof web app. Previously, I optimized last-mile postal delivery operations as an operations research analyst at CTT – Correios de Portugal.

My education includes a Master of Science in Computer Science from NOVA University Lisbon, where I explored artificial intelligence, machine learning, and information retrieval. I'm proficient in various programming languages and tools, and I thrive on staying current with the latest tech trends. I'm committed to using technology to create positive change and innovation.

WORK EXPERIENCE

Junior Web Developer   Mar. 2023 – Present
PageProof   *Lisbon, Portugal*

- Working on fixing several issues with the PageProof web app, particularly in the mobile experience;

Operations Research Analyst   Jan. 2022 – Sep. 2022
CTT – Correios de Portugal, S.A.   *Lisbon, Portugal*

- Operations research and data analytics project;
- Had the main goal of optimizing the last-mile delivery step of the postal distribution process;
- Explored how to model and solve a vehicle routing problem adapted to the postal sector, in general, and the company, in particular;
- Provided meaningful insight and visualizations regarding routing solutions with Tableau.

Front-end Developer Intern   Apr. 2020 – Jul. 2020
Altitude Software   *Lisbon, Portugal*

- Developed React components to replace existing ASP.NET components in a contact centers management platform;
- Integrated the components with the application's back-end using C# and ASP.NET.

EDUCATION

NOVA University Lisbon   Sep. 2020 – Dec. 2022
Master of Science in Computer Science   *Lisbon, Portugal*

RELEVANT COURSEWORK:

Artificial Intelligence *A*

Data Modelling *A+*

- Research project for comparing which database model (relational vs. graph-based) is best suited for modelling a dataset containing all U.S. domestic flights from 1987 to 2021.

Information Retrieval *A*

- Implemented a search-based conversation framework and experimented with various language models;
- Applied NLP methods like word2vec and BERT to improve the search results ranking;
- Used a conversation tracking method (T5) to rewrite queries based on past utterances.

Machine Learning *A*

- Compared the use of a Naive Bayes and Support Vector Machine classifiers to distinguish between genuine and forged banknote-like specimens;
- Examined and classified a set of bacterial cells using several machine learning techniques including feature extraction, selection and clustering methods;

Technische Universität Dresden   Apr. 2021 – Oct. 2021
Erasmus+ Programme Mobility   *Dresden, Germany*

NOVA University Lisbon   Sep. 2017 – Sep. 2020
Bachelor of Science in Computer Science   *Lisbon, Portugal*

Relevant coursework:

Algorithms and Data Structures *A+*

Object Oriented Programming *A*

Sensors and Image Processing *A*
- Built a traffic sign recognition framework for classifying and extracting information from images containing portuguese traffic signs.

Personal Projects

My Spelling Game | *Unity, C#, SQLite*   Jul. 2018 – Nov. 2018
- Developed and published a 2D mobile game for Android/iOS along with a graphic designer.

Events

EUROPT Summer School 2022 | *Mathematical optimization, Game theory*   Aug. 2022

Android Training Program | *Android Studio, Java, Kotlin*   Nov. 2019

Unity Workshop - JORTEC Informática 2019 | *Unity, C#*   Feb. 2019

Languages

Portuguese: Native proficiency
English: Full professional proficiency
German: Elementary proficiency

Technical Skills

General-purpose languages: Java, C#, Python, Kotlin
Web development: HTML, CSS, JavaScript, TypeScript, React, webpack, Node.js, AngularJS
Cross-platform & mobile game development: Flutter, Unity, Firebase, OneSignal
Developer tools: Git, Docker, npm
Data science libraries: NumPy, pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, PyTorch, OpenCV
Database management systems: MySQL, MongoDB, Neo4j
Test-automation frameworks: Jest, Cypress
Software packages: Tableau, CPLEX