Bernardo Casaleiro | Data Engineer

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Education

Instituto Superior Técnico

Lisbon, Portugal

Masters in Information Systems and Computer Engineering

2016-2018

Algorithms and Intelligent Systems Focus

Coimbra, Portugal

Bachelor in Software Engineering

2013-2016

Master's Thesis

University of Coimbra

Title: Morphosyntactic Label Disambiguation

Supervisors: Professor Bruno Martins & Professor Nuno Mamede

Description: This thesis explored the use of hand-crafted rules in combination with Recurrent Neural Networks

and Conditional Random Fields to disambiguate 11 different morphosyntactic labels for each word.

Work Experience

Meight Lisbon, Portugal

Data Engineer October 2019-Present

o Set up and managed a Cassandra cluster of up to 9 nodes, and its backup system.

- o Implemented the Primeight Open Source Python package to standardize how people inside Meight interacted with Cassandra.
- Set up monitoring and analytics for all services using ELK Stack, which led to an API success rate of over 99.5%.
- o Designed and enforced a plan that reduced AWS costs by 65% while improving uptime of all systems.
- o Implemented and managed multiple ETL pipelines using Apache Airflow.
- o Designed and implemented multiple API services using FastAPI.

Meight Lisbon, Portugal

Data Scientist February 2019-January 2020

- o Developed a pipeline to assess the quality of the received data.
- o Implemented a Complex Event Processor using Siddhi to detect and correct driver mistakes in real time.
- o Implemented an ETL pipeline to automatically detect the begining and end of Trips.

muse.ai Lisbon, Portugal

Artificial Intelligence Engineer

September 2017-December 2018

- o Designed and developed the company's distributed file system.
- o Developed Object Recognition, OCR and Action Recognition pipelines and respective curation tools.
- o Designed and trained a deep learning model to perform OCR using Keras with Tensorflow.

Stratio Coimbra, Portugal Web Developer May 2015-March 2016

- o Full Stack Web Development using Laravel, Node.js, AngularJS and jQuery.
- o Worked on an Android application that helps users pick a public transportation route for the city of Coimbra.

JeKnowledge Coimbra, Portugal October 2013-May 2015

Junior Developer

Languages

Portuguese: Native language

English: Full professional proficiency