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

University of Coimbra   **Coimbra, Portugal**
Bachelor in Software Engineering   *2013–2016*

Master's Thesis

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*

- Set up and managed a Cassandra cluster of up to 9 nodes, and its backup system.
- 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, that led to an API success rate of over 99.5%.
- Designed and enforced a plan that reduced AWS costs by 65% while improving uptime of all systems.
- Implemented and managed multiple ETL pipelines using Apache Airflow.
- Designed and implemented multiple API services using FastAPI.

Meight   **Lisbon, Portugal**
Data Scientist   *February 2019–January 2020*

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

muse.ai   **Lisbon, Portugal**
Artificial Intelligence Engineer   *September 2017–December 2018*

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

Stratio   **Coimbra, Portugal**
Web Developer   *May 2015–March 2016*

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

JeKnowledge   **Coimbra, Portugal**
Junior Developer   *October 2013–May 2015*

Languages

Portuguese: Native language

English: Full professional proficiency