# Bernardo Casaleiro | Data Engineer

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## Work Experience

**Meight** — **Remote / 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, which led to an API success rate of over 99.5%.
- Designed and enforced a plan that reduced AWS costs by 65% while improving the 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 detect the beginning and end of Trips automatically.

**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*

## 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*

## Masters 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 (e.g. noun, verb, ...) for each word.

## Languages

**Portuguese**: Native language

**English**: Full professional proficiency