

# Bernardo Casaleiro | Data Engineer

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## Work Experience

### Revolut

Senior Software Engineer

Remote, Portugal

September 2021 – Present

- Designed and implemented frameworks for scalable regulatory reporting using Python and Celery
- Collaborated with stakeholders to ensure compliance with local regulations in multiple countries
- Improved reporting accuracy and efficiency through optimized SQL queries and robust ETL pipelines
- Acted as the functional manager of 4 engineers, providing technical guidance, mentoring, and ensuring alignment with project goals and company standards

### Meight

Data Engineer

Remote / Lisbon, Portugal

October 2019 – September 2021

- Set up and managed a 9-node Cassandra cluster with backups for reliability and data integrity
- Developed Primeight, an open-source Python library, standardizing how Meight engineers interact with Cassandra
- Designed and enforced a plan that reduced AWS costs by 65% while improving the uptime of all systems.
- Built and maintained multiple ETL pipelines using Apache Airflow, streamlining data processing workflows
- Designed and deployed RESTful API services using FastAPI, integrating ELK Stack monitoring and analytics to achieve an API success rate of over 99.5%

Data Scientist

February 2019 – January 2020

- Created a pipeline to assess and improve the quality of incoming data, ensuring reliable analytics
- Developed a Complex Event Processor using Siddhi, enabling real-time detection and correction of driver mistakes
- Designed and implemented an ETL pipeline to automate trip segmentation

### muse.ai

Artificial Intelligence Engineer

Lisbon, Portugal

September 2017 – December 2018

- Designed and developed a distributed file system to handle large-scale data processing needs
- Built pipelines for Object Recognition, OCR, and Action Recognition, along with tools to curate datasets for training and validation

### Stratio

Web Developer

Coimbra, Portugal

May 2015 – March 2016

### JeKnowledge

Junior Developer

Coimbra, Portugal

October 2013 – May 2015

## Education

### Instituto Superior Técnico

Masters in Information Systems and Computer Engineering

Algorithms and Intelligent Systems Focus

Lisbon, Portugal

2016 – 2018

### University of Coimbra

Bachelor in Software Engineering

Coimbra, Portugal

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