

Rui Monteiro

Data Engineer

ruifgmonteiro@gmail.com

+351 916841099

Porto, Portugal

[LinkedIn](#)

[Github](#)

WORK EXPERIENCE

Critical TechWorks

Data Engineer

Porto, Portugal | September 2019 - current

- Designed and implemented a data pipeline to process 500TB+ of data from 40+ data sources using Kafka, S3, AWS Glue (PySpark) and Redshift
- Responsible for the development and maintenance of a Data Lake and a Data Warehouse which provide data for several web and reporting applications across the organization
- Migrated and improved core analytical use cases from Teradata to Redshift reducing the execution times up to 80%
- Conducted the migration of the data platform from on-prem (Hadoop) to the cloud (AWS) employing IaC (Terraform)
- Close and transparent working model with the users to understand the business needs and translate them into technical implementation
- Supported the data stewards creating semantic datasets and improving analytical use cases for Tableau reports
- Onboarded and tutored 3 of the current Data Team members

Atlantic SI - SONAE

Intern / Software Developer

Porto, Portugal | September 2017 – August 2019

- Analyzed project requirements, developing and testing solutions for the ERP of the largest retailer in Portugal (9k+ stores)
- Translated business needs into Oracle PL/SQL procedures, packages and batch processes that:
 - were the source of data for several REST webservice
 - impacted the efficiency in both store and warehouse operations
- Automated audit queries and other daily routines with Python for monitoring purposes
- Monitored deployments to production environment

SKILLS

- Python, Java, Scala
- Shell Scripting
- SQL (Postgres, Redshift, Oracle)
- Spark
- Kafka
- Hadoop (Oozie, HDFS, Hive, Sqoop)
- AWS (S3, Athena, Glue, Lambda, CloudWatch, EventBridge, CodePipeline, VPC, ECS)
- Terraform
- Docker
- Agile (SCRUM), Jira
- Git

EDUCATION

MSc. in Biomedical Engineering

University of Minho, Portugal

2013 – 2018

Master's Thesis: "A pill classification system for mobile applications using Deep Learning".

Tech stack: Python, Flask, Keras, Tensorflow, Sqlite3, OpenCV.

CERTIFICATES

- Cambridge English: Advanced (CAE) - | CEFR Level: C1
- Architecting on AWS
- Big Data on AWS
- Developing on AWS