

Rui Moreira Data Engineer

in rui-moreira

■ rui91moreira@gmail.com

rmmoreira

PROFESSIONAL EXPERIENCE

CO-FOUNDER, Brainn

A tech spin-off from Kaizen Institute specializing in data-driven software development.

Nov 2023 – present Porto, Portugal

May 2023 – present Porto, Portugal

HEAD OF ENGINEERING, Foliume ☑

Insurtech Startup building an AI SaaS for Churn prediction and Cross-selling campaigns Responsibilities:

- Leading the organization with the best practices for collaborative software development
- Improving the software scalability to reach 10x clients with the same workforce
- Improving the software reliability with CI/CD, automation and testing environments

Tech stack:

Programming: Python, JavaScript, SQL Frameworks: Remix.js, Data Version Control Cloud: AWS (S3, Lambda, Transfer Family) Version Control: GitHub (with Actions - CI/CD)

DATA ENGINEER, Google 🗷

Part of Google Technical Services (gTech), working in Travel Analytics Center (TAC) product Responsibilities:

- Building and maintaining big data pipelines running billions of data points daily
- Developing dashboards for TAC, with actionable insights to airlines
- Refactoring TAC to be more scalable, enabling a faster product growth

Tech stack:

Programming: SQL, Python, HTML, CSS

Infrastructure: F1 (~ Hive), CNS (~HDFS), Plx Workflows (~Airflow)

BI: Looker, Plx Dashboards (~Tableau)

Cloud: GCP (BigQuery, Google Analytics API, Geolocation APIs)

Version Control: Piper, Critique (~GitHub)

SOFTWARE DEVELOPER, ETH Zürich 🖸

Public research university consistently ranked among the top 10 universities worldwide

Responsibilities:

- Full-stack developer of analytical web applications for the Structural Mechanics course, ackownledged as the best app of 2022 by the Community Manager of Plotly Dash
- Software developer of the ML package UQCloud, in collaboration with other PhD's

Tech stack:

Programming: Python, MATLAB, JavaScript, HTML, CSS

Frameworks: Dash, Flask, Bootstrap, React.js

Cloud: Heroku

Version control: GitLab

DATA SCIENTIST, Tonic App ☑

Tech startup that developed a professional mobile platform for medical doctors

Responsibilities:

- Defining the data governance strategy and developing a data warehouse for the app data
- Developing full-stack analytics solutions for investors, C-level, product and growth teams
- Acquisition, retention and user behavior analysis for product improvement

Tech stack:

Programming: Python (NumPy, pandas, seaborn, plotly, CARTO,...)

Infrastructure: Docker, mySQL, postgreSQL, Datadog

BI: Looker, Mixpanel (Product Analytics)

Jun 2022 - May 2023 Zürich, Switzerland

Sep 2021 – May 2022 Zürich, Switzerland

Aug 2020 – Mar 2022 Porto, Portugal Cloud: AWS (ECS, Fargate, Aurora, Kinesis, S3, Glue, Athena)

Version control: GitLab (with CI/CD pipelines)

DATA SCIENTIST, BA Glass 🖸

One of the largest manufacturers of glass containers in Europe

Sep 2018 - Mar 2022 Porto, Portugal

Responsibilities:

- Fully developed a scalable ML based Web App with MLOps integration that optimizes energy consumption in glass furnaces, saving 100k€ after 10 months in production
- Developing a Model Predictive Controller combining ML with differential equations control and stabilize a multi-input and multi-output complex manufacturing process
- Data science advisor of several corporate departments for analytics projects: sales forecast (planning), pricing (marketing) and logistics route optimization (transports)

Tech stack:

Programming: Python (PySpark, scikit-learn, TensorFlow, pandas, matplotlib, plotly, ...)

Infrastructure: Docker, Airflow, Spark, PostgreSQL, InfluxDB

BI: Dash, SAP Analytics Cloud, PTC ThingWorx

Cloud: Azure (Databricks, Machine Learning, Data Lake)

Version Control: GitHub, Azure DevOps

MECHANICAL ENGINEER, INEGI ☑

Jul 2016 - Sep 2018

Porto, Portugal

Institute of Science and Innovation in Mechanical and Industrial Engineering

Responsibilities:

- End-to-end product development of a 3D printer for carbon fiber reinforced parts
- Scientific research in high performance thermoplastics
- Topology optimization for weight reduction of a professional canoe

Tech stack: MATLAB, LabVIEW, TwinCAT, SolidWorks, Abaqus

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Data Engineering Nanodegree, Udacity 🗆

2020

5-month e-course to learn how to design data models, build data warehouses and data lakes, automate data pipelines and work with big data.

Remote

Tech stack: SQL, NoSQL, Hadoop, Apache Cassandra, Spark and Airflow

Data Science Bootcamp, IE Business School

2019

500-hour intensive program focused on coding, data mining and visualization, machine learning, statistics and storytelling

Madrid, Spain

Tech stack: Python, R, SQL, LIDAR

MSc in Automation, Instrumentation and Control, FEUP

2014 - 2016Porto, Portugal

BSc in Mechanical Engineering, FEUP

2010 - 2016

Porto, Portugal

PUBLICATIONS

Conference Proceedings, XIII Iberoamerican Conference on Mechanical Engineering 🖸 Additive Manufacturing based hybrid processes for long or continuous fiber reinforced polymeric matrix composites

2017

Master's thesis, FEUP - Faculty of Engineering of the University of Porto ☑

2016

Conceiving a non-contact measurement system for the polymer temperature at the nozzle exit of a FDM 3D printer



LANGUAGES

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Portuguese English Native Full professional proficiency

Spanish

Limited working proficiency