

LEONARDO MELO

SOFTWARE ENGINEER

PERSONAL PROFILE

I'm highly dedicated and ambitious person, trying to transition from fullstack to data engineering.

WORK EXPERIENCE

Software Engineer - Swissre

TwoImpulse | Jan 2023 - Present

- Improvements in internal Document Annotation tools used across the organization;
- Caching solution with Redis to improve performance of app;
- PoC using Azure Data Lake as external storage which would allow teams to keep data on their side while we operate on it.
- Migrate microservices from Spring Boot 2 and Java 11 to Spring Boot 3 and Java 17.

Stack: Spring Boot, Angular, Azure, Redis, Microservices

Software Engineer - T.B.A

TwoImpulse | Jun 2022 - Dec 2022

- Requirement gathering and solution design based on customers' needs, focused on model design and pipeline creation;
- Creation of a web app to visualize and control data, previously ETL'd;
- MLOps setup to ensure ML models are valid and up-to-date.

Stack: Python, FastAPI, React.JS, PostgreSQL, Docker, MLFlow

Software Engineer - Ultratimeseries

TwoImpulse | Nov 2021 - May 2022

- Repurpose and redesign a user management system;
- Design a solution to offer Databases-as-a-service (DBaaS), with multiple docker-compose (later K8S) behind an NGINX reverse-proxy;
- Create an account-trial system;
- Participated in company-wide tech talks as a speaker.

Stack: Spring Boot, React.js, Docker, MySQL, Grafana, NGINX

Teacher's Assistant

Instituto Superior de Engenharia de Lisboa | Sep 2017 - Sep 2021

- Supervising and helping with classes (3D Modelling);
- Research and development to create a new curriculum unit (Smart and Interactive Virtual Environments);
- Setting up and managing multimedia lab.

RELEVANT PROJECTS

15-Minute City (Master Thesis) | Web + Infrastructure

Real estate dashboard that displays zone metrics and listings scraped from multiple real estate agencies.

Stack: Microservices, Spring Boot, React.js, Redis, Docker, Kubernetes, PostgreSQL, Mongo, DynamoDB, Cognito, PostGIS, gRPC, Elastic Search, Prometheus, Grafana

LisbonAirQuality | IoT application

Dashboard that displays Lisbon air quality. Data is collected through a moving TTGO ESP32 device that communicates via LoRa with an API built in NodeRed.

Stack: MicroPython, NodeRed, LoRaWAN, MongoDB

EDUCATIONAL HISTORY

Masters in Software and Multimedia Engineering | 2018 - 2021

Instituto Superior de Engenharia de Lisboa (ISEL)

Bachelor in Software and Multimedia Engineering | 2014 - 2018

Instituto Superior de Engenharia de Lisboa (ISEL)



CONTACTS

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 @leonardmelo

SKILLS

Programming Languages

Java, Python, Typescript, SQL

Frameworks

Spring Boot, React.js, Scrapy, FastAPI

Libraries

Pandas, Numpy, Leaflet, Deck.gl, Hadoop

Data

PostgreSQL, PostGIS, MySQL, Redis

Infrastructure

Docker, Kubernetes, NGINX, gRPC

Monitoring

Prometheus, Grafana

Cloud

AWS (EC2, S3, Route53), Azure (Data Lake, Redis)

SOFT SKILLS

Autonomous
Curious
Self-motivated
Active learner
Good with people

LANGUAGES

Portuguese
English