João **Santos**

Contact details

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Personal information

- Date of birth: **6 May 1994**
- Citizenship: **Portuguese**
- Right to Work: **PT, UK (EU Settlement Scheme)**
- Location: **Norwich, Norfolk, United Kingdom**
- Languages: **Portuguese (native)**, **English (C2)**, **Spanish (B1)**

Skills

- Data engineering & pipeline design
- Python and API development
- Database administration
- AI & Large Language Model integration
- Team collaboration & technical strategy

Tools and Technologies

Python	Flask
Docker	Pandas
Git	Linux
Nginx	SQL Server
PostgreSQL	Cassandra
LLM	Scrapy
Waitress	Cursor
Portainer	Streamlit
New Relic	

Summary

Data Engineering leader with extensive experience building and managing data capabilities from the ground up. Skilled in designing scalable on-premises data architectures, pipelines, and APIs, with a strong focus on AI and Large Language Model integration. Proven ability to align technical strategy with business objectives, lead multidisciplinary teams, and deliver data-driven solutions across real estate, banking, and B2B sectors. Experienced in leveraging open-source technologies and advanced analytics to drive innovation and operational efficiency.

Experience

Lead Data & AI Engineer at *InovaDigital* — **April 2021 – Current**

◇ Responsible for defining and executing the company's data strategy, overseeing the development and operation of data platforms, and ensuring alignment between technical capabilities and business objectives.

◇ Establishing and managing the data engineering department, including governance, architecture, and technology roadmap.

◇ Collaborating with cross-functional teams and clients across sectors such as real estate, banking, and B2B services.

◇ Leading data acquisition, integration, and automation initiatives to enhance data-driven decision-making.

◇ Overseeing the design and maintenance of data infrastructure, APIs, and pipelines ensuring scalability, performance, and reliability.

◇ Managing a multidisciplinary team and acting as the primary link between executive leadership and technical delivery.

◇ Driving innovation through the adoption of open-source solutions and integration of emerging technologies, including Large Language Models (LLMs).

◇ Ensuring best practices in data management, security, and compliance across all company projects.

Data Engineer at *M&ADigital* — **February 2020 – April 2021**

◇ Joined the company after completing a degree in Computer Engineering, contributing to the early stages of its data transformation strategy.

◇ Designed initial data collection and processing pipelines, laying the groundwork for future automation.

◇ Supported multiple departments in identifying opportunities for data integration and analytics.

◇ Assisted in the design and implementation of scalable data architectures to support analytical needs.

◇ Developed data pipelines using Python and SQL to extract, transform, and load large datasets.

EDUCATION

INFORMATICS ENGINEERING at *Aveiro University, Aveiro, Portugal*
Sept 2014 – Jul 2019

◇ Extensive training in computer engineering, with focus on software engineering, information systems, and artificial intelligence.

◇ Emphasis on practical application, critical analysis, and independent problem-solving.

◇ Covered areas include web technologies, databases, IT security, and data-driven systems.

◇ Projects throughout the curriculum encouraged innovation and the application of emerging technologies.

PROJECTS

FOREST FIRE SPREAD ANALYSIS AND EMISSION ESTIMATION
Feb 2019 – Jul 2019

◇ Designed and implemented a system to analyse forest fire propagation and estimate associated gas emissions. Collected aerial images and videos via drone, segmented burned regions into polygons, and mapped them to georeferenced areas to calculate real burned areas and track temporal fire progression. Applied image processing and spatial analysis techniques to provide accurate, data-driven environmental insights.

HOBBIES

Playing Basketball, Chess, Fishing and Hiking.