

João Miguel Gomes

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Professional Summary

Graduate in Management Information Systems with practical experience in Python, SQL, and building basic data pipelines. Worked on projects using blockchain and created simple ETL workflows and data visualizations with Tableau. I'm truly passionate about data, and I enjoy turning ideas into solutions. I'm dedicated, curious, and always ready to put in the work to learn and improve. I'm excited about the chance to grow with a team and contribute with energy, focus, and a strong will to learn.

Education

University of Minho, Braga, Portugal

Integrated Master's in Management Information Systems (04/2025)

- Thesis: Blockchain-Based Solutions for Product Traceability Platforms.
- Erasmus Programme: University of Ostrava, Czech Republic – Focus on Data Management and Analytics.
- Relevant Coursework: Database Structures, Algorithms, Predictive Models, Data Visualization, Data Science Techniques.

Experience

CCG/ZGDV - ICT Innovation Institute, Guimarães, Portugal

Software Engineer (Researcher) (07/2023 – 12/2024)

- Collaborated cross-functionally with research teams to develop proofs of concept for data systems and blockchain traceability.
- Co-developed the "Digital Product Passport" supporting EU Circular Economy initiatives.
- Deployed solutions in production environments and maintained data quality.
- Tools: Python, SQL (PostgreSQL), Excel, REST APIs, Git.

FNAC Portugal & Supermercados Preços Baixos, Braga, Portugal

Customer Service & Sales Associate (05/2018 – 06/2023)

- Streamlined front-end operations, reducing wait times by 25%.
- Resolved customer technical and billing issues with precision and empathy.
- Translated business requirements into technical solutions with focus on customer satisfaction.

Projects

Modern Data Ingestion Pipeline with Python (Course Project)

- Built scalable data ingestion pipelines using Python and dlt, handling schema drift, REST API extraction, and incremental data loading.
- Automated schema normalization and implemented alerting mechanisms for schema changes, improving data quality and pipeline resilience.
- Integrated data from APIs and SQL sources into DuckDB and cloud data warehouses with performance-tuned ETL workflows.
- Deployed workflows using GitHub Actions, Crontab, Airflow, and Dagster to orchestrate robust, production-grade data pipelines.

Data Warehouse & Analytics Project

- Engineered a multi-tiered data warehouse supporting complex analytics and insights.
- Applied advanced SQL techniques (CTEs, window functions, indexing) to optimize queries.
- Conducted exploratory analysis, cohort segmentation, and automated procedures using PL/pgSQL.
- Delivered a proof of concept to stakeholders, improving data processing efficiency.
- Stack: SQL, PostgreSQL, DDL/DML, Performance Optimization.

Skills & Interests

Technical Skills: Python, SQL, Javascript, HTML, CSS, AI, Git, Pandas, NumPy, Scikit-learn, PyTorch, Tableau, Power BI, Excel, Matplotlib, Seaborn, PostgreSQL, ETL.

Soft Skills: Collaboration, Analytical Thinking, Problem Solving, Communication, Creativity, Presentation Skills.

Languages: Portuguese (Native), English (Advanced), Spanish (Advanced).

Certifications: The Complete Python Bootcamp – Dr. Angela Yu.

Interests: Martial arts, running, reading, travel, psychology, and personal development.