João Amaral

Data Engineer

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Professional Summary

Data Engineer with over 6 years of experience in data-driven environments, focused on SQL development, ETL/ELT processing, and Oracle-based systems. Proficien tat designing and optimizing data pipelines, managing technical incidents, and supporting business-critical applications in fast-paced environments using Agile and Scrum methodologies.

Currently expanding Python-based workflow automation and backend data integration skills. Known for effective communication, delivering robust data solutions, and maintaining strong collaboration with cross-functional IT and business teams.

Experience

Mobileum (formerly WeDo Technologies)

Data Engineer / Functional Analyst —————————————————————— *2018 -2024*

- Developed and optimized 20+ ETL data flows using Oracle SQL and RAID for sales commission and incentive platforms at NOS, Vodafone, Banglalink, and Etisalat.

- Implemented a key project for Via Verde, validating cross-border toll commission data between Portugal and Spain to ensure accuracy and compliance.

- Partnered with technical teams and business analysts to define robust data models and interface specifications tailored to business needs.

- Led data validation efforts, query optimization, and performance tuning to enhance system stability and data integrity.

- Authored and maintained technical documentation, user manuals, and dashboards to support solution deployment and ongoing user engagement.

- Contributed to several data migration and system upgrade projects, ensuring smooth transitions with minimal disruption.

- Diagnosed and resolved production issues, implementing sustainable solutions adopted by development and support teams.

- Adapted quickly to diverse technical requirements, working outside my core stack with Java, XML, JSON, PL/SQL, and binary data formats to meet project demands.

- Regularly utilized Microsoft Excel for data validation, reporting automation, and collaboration with business stakeholders.

SPMS

Analista de Dados / Automatização

- Developed interactive Power BI dashboards to support monitoring of operational and management KPIs.

- Automated data collection and refresh processes using Power Automate, reducing manual effort and operational errors.

- Structured and managed data in SharePoint, ensuring efficient integration with the Power Platform.

- Developed internal applications with Power Apps to optimize processes and improve team efficiency.

- Collaborated with stakeholders to define requirements, metrics, and solutions aligned with business needs.
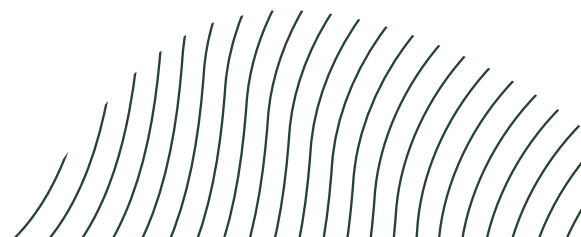
Education

Bachelor's Degree in Electronic, Telecommunications, and Computer Engineering

Graduated 2018

Instituto Superior de Engenharia de Lisboa

Courses & Certifications

- **100 Days of Code: Python Pro Bootcamp – Udemy (2024)**
- **The Complete 2023 Web Development Bootcamp – Udemy (2024)**
- **Project Management: Beginner to PM – Udemy (2025)**

Technical Skills

- **Languages & Tools:** SQL (Oracle, PL/SQL, PostgreSQL), Python (pandas, requests), JavaScript, React, TailwindCSS, RAID (low-code), Bash, Linux, Excel.

- **Data Engineering:** Development and optimization of ETL/ELT pipelines, data validation, debugging, and performance tuning.

- **BI & Automation:** Power BI, Power Automate, SharePoint, Power Apps.

- **Methodologies:** Agile, Scrum, technical documentation, and collaboration between technical and business teams.

- **Other:** Figma, MS Office, basic knowledge of C, Java, Matlab, and networking.

Languages

- *Portuguese – Native*
- *English – Fluent (Professional use: meetings, documentation, presentations)*

Soft Skills

- Strong analytical, problem-solving, and critical thinking mindset
- Clear communicator with technical and non-technical teams
- Detail-oriented and methodical in documentation and process validation
- Experienced in Agile/Scrum environments and handling change requests
- Comfortable handling incident support and change requests
- Adaptable and quick to pick up new tools and technologies.