

Igor Machado Dias Beduschi

Data Engineer

Portuguese (Native) · English (Advanced – C1)
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PROFESSIONAL SUMMARY

Computer Scientist with 5+ years of experience across software and data engineering. Specialized in designing and operating scalable ETL/ELT pipelines in Python, Apache Airflow, and AWS, applying software engineering practices to data systems: unit and integration testing, code quality, IaC, and containerization. Full-stack capable (React, Next.js, Django) when business needs demand it. Hands-on experience across investment, healthcare, and banking sectors.

TECHNICAL SKILLS

Languages: Python, SQL, Bash, JavaScript, TypeScript, Java

Data Engineering: Apache Airflow, Apache Spark, Pandas, Polars, ETL/ELT, Data Modeling, Web Scraping, Data Quality

Cloud & DevOps: AWS (S3, EC2, Athena), Docker, Terraform, Git, CI/CD

Web Development: React, Next.js, Django, Streamlit

Databases: SQL Server, Oracle, AWS Athena, DuckDB

Testing & Quality: Pytest, Unit Testing, Integration Testing, Jest

Analytics & BI: Power BI, Tableau

PROFESSIONAL EXPERIENCE

Data Analytics Engineer

Aug 2025 – Present

One Investimentos

- Design and build scalable ETL pipelines using Python, SQL, Apache Airflow, Apache Spark, Pandas/Polars, and DuckDB on AWS, containerized with Docker and provisioned via Terraform (IaC).
- Extract complex datasets through advanced web scraping techniques and develop internal data applications with Django and Streamlit for analytical consumption.
- Optimize Airflow DAGs with resource limits and caching strategies, reducing pipeline execution time and cloud compute costs.
- Implement data quality frameworks and write unit and integration tests, ensuring reliability of business-critical data systems.

Data Analyst

Oct 2024 – Aug 2025

Oncoclinicas

- Built ETL processes for integrating and cleaning healthcare datasets, improving the speed and reliability of internal operations.
- Automated complex workflows in Python, transforming raw operational data into strategic insights for clinical and business stakeholders.
- Developed interactive Power BI dashboards and provided direct analytical support to cross-functional stakeholders.

Data Engineer

May 2023 – Oct 2024

Banco Mercantil

- Built and maintained data pipelines for system integration in a financial services environment, leveraging SQL Server and Oracle.
- Developed Python automations for internal routines, generating productivity gains and reducing operational costs.
- Authored complete technical documentation to ensure scalability and long-term maintainability of data processes.

Data Governance Analyst & Translator

May 2021 – Aug 2022

Inter (Banco Inter)

- Acted as the interface between business and engineering teams, ensuring data governance compliance across large-scale projects.
- Performed advanced queries on Data Lakes using AWS Athena and S3, with distributed processing in Apache Spark.
- Managed cloud infrastructure as code (IaC) using Terraform.

Web Developer

Aug 2020 – May 2021

Syngenta Digital

- Developed features for scalable web applications using ReactJS, TypeScript, and JavaScript in an AWS environment.
- Ensured release stability through unit testing with Jest, contributing to a high-quality CI/CD pipeline.

EDUCATION

B.Sc. in Computer Science

Jan 2019 – Jun 2024

Pontificia Universidade Catolica de Minas Gerais (PUC Minas)

Technical Degree in Information Technology

2017

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