Wellington Barbosa de Jesus

Data Engineer | Python Full Stack Developer

Summary

Data Engineer and Full Stack Developer with 13 years in technology, working on mission-critical systems in Brazilian private health insurance and on the Philips Tasy ERP. I build data pipelines, system integrations and web applications with Python, FastAPI, React, Oracle PL/SQL and PostgreSQL, focused on data integrity, traceability and less manual work. Recent results include an ETL pipeline that generated estimated savings of R$ 2 million by ending dependence on a vendor, and a services portal that moved more than 80% of IT's manual routines to the business areas themselves.

Professional experience

Private health insurance company · Remote

Full Stack Developer & Data Engineer `01/2025 – present`

- Designed and implemented an ETL pipeline that brought the data of an outsourced system in-house (more than 100 report types extracted automatically), ending the dependence on the vendor and generating estimated savings of R$ 2 million in contract fees.
- Conceived the company's Services Portal (Python and React), with department-level access and an audit trail. More than 80% of the routines IT used to run by hand in the database are now done by the business areas themselves.
- Built the automated reporting module (parameterized SQL, scheduling, XLSX/CSV/TXT and e-mail delivery), cutting tickets of this kind by 70%.
- Built a full stack web portal that replaced manual spreadsheet registration, automating 95% of the flow with direct integration to external vendors.
- Created REST APIs and microservices integrating Tasy with satellite systems, with reliable exchange of clinical and administrative data.
- Developed Oracle PL/SQL packages, procedures and triggers for complex business rules and vendor integrations.
- Implemented an Oracle/Tasy supervision dashboard (sessions, locks, tablespaces and invalid objects, with alerts by severity), RPA robot monitoring and an encrypted credential vault.
- Created a Python robot for bulk sending of payment slips, eliminating operational errors in the process.

Contact

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Skills

Back-end and integrations
Python, FastAPI, Pandas, Playwright, REST and SOAP APIs, microservices, JSON and XML, Java, .NET

Databases
Oracle PL/SQL (packages, procedures, triggers), PostgreSQL, SQL Server, MySQL, tuning and execution plans, data migration

Data
ETL pipelines, Pentaho, Apache Airflow, Power BI, data quality and governance

Front-end
React

Infrastructure and practices
Docker, Linux, Git, OCI, Cron, DEV/HML/PRD environments, Scrum

Domain
Brazilian private health insurance, Philips Tasy ERP, TISS standard

Languages

Portuguese: native
English: basic
Spanish: basic

Professional experience (continued)

Private health insurance company · Remote · continued

Systems Analyst 03/2024 – 01/2025

- Led the data migration to Tasy from the Infomed and Pirâmide legacy systems (Accounts Payable, Accounts Receivable, intercompany members and TISS claims) and took part in the go-live.
- Created materialized views, database links and automated routines for cleaning and treating data during the migration.
- Built custom reports and integrations with external vendors, and tuned the queries that sustain daily operations.

Junior Support Analyst 08/2022 – 02/2024

- System and database support, as part of the data team on the Tasy rollout project (data migration and quality).

Denusa - Destilaria Nova União S.A. · Indiara, GO, Brazil

Senior Systems Analyst & Senior Developer 07/2020 – 01/2022

- Ran a process automation initiative across several departments, replacing paper and spreadsheet flows with in-house software, with estimated savings of R$ 200,000 per month.
- Led integrations with satellite-operated agricultural machinery, with real-time data exchange between the field and the central systems.
- Gathered requirements from internal areas and customers, documenting solutions and use cases for medium- and high-complexity demands.

BRdata Tecnologia LTDA · Rio Verde, GO, Brazil

Senior Software Developer & DBA 08/2016 – 09/2019

- Developed enterprise applications in .NET across the whole cycle, from feasibility analysis to customer acceptance.
- Administered and tuned Oracle, SQL Server and MySQL databases, with high-availability and disaster-recovery solutions.
- Led data migrations between DBMSs, supported the adoption of Scrum and technically mentored other developers.

Personal projects

LayerCodeWB. A full stack management platform built from scratch (FastAPI, React, PostgreSQL), with an encrypted credential vault, an audit trail and about 960 automated tests in continuous integration.

Brasmerica Pavers Systems. A catalog and quote app for a US paving company, built with React Native (Expo) and Firebase for Android and iOS: gallery, calculator, step-by-step quotes with order tracking, and Google and Apple sign-in.

WB Finanças. A personal finance web system with an AI assistant and complete auditing, born from a problem of my own.

Education

Bachelor's degree in Information Systems
State University of Goiás (UEG)
02/2014 – 12/2017 · Completed

Postgraduate degree in Computer Forensics
IPOG - Postgraduate and Undergraduate Institute
06/2018 – 08/2020 · Completed

Postgraduate degree in IT Governance and Management
Facuminas
In progress · expected 07/2027

Courses and certifications

Data Governance and AI career track, Alura + FIAP (in progress, expected 01/2027)

BI and Data Warehouse with Pentaho, Alura (2021)

Introduction to Git and GitHub; Agile projects with Scrum, DIO (2022)

Technician in Computing, Senac