Jefferson Barbosa Amorim Silva

Data Specialist · Engineering | Analytics | Projects
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Professional Summary

Experienced professional with strong background in data engineering and analysis, with notable work in the supplementary health sector. Projects include integration of multiple sources, pipeline construction, medical auditing, process automation, indicator modeling, and operational monitoring. Proven ability to translate complex problems into objective, scalable solutions, delivering strategic results for clinical, commercial, and executive areas.

Key Skills

- Python (Streamlit, Pandas, PySpark, SQLAlchemy, scikit-learn)
- SQL (Oracle, AWS Athena)
- Cloud environments (AWS)
- Docker, pipelines, data integration
- Metabase, Power BI, Qlik Sense, Tableau
- Best practices: error handling, logging, versioning, testing
- Technical documentation and process design

Professional Experience

Commercial Performance Supervisor – Unimed-BH

2025
Technical leadership of the Analysis and Performance team, focused on strategic insights for prospecting, retention, and portfolio behavior.

- Development of advanced analyses in Python and SQL.
- Financial studies for the superintendency.
- Integration of multiple data sources and acceleration of decision-making.

Clinical Data Analyst – Unimed-BH

2023 – 2025
Work in medical auditing, hospital efficiency, and evaluation of internal processes.

- Automation for recommending medical claims with potential improper billing.
- Review of system parameterizations to mitigate financial risks.
- Data structuring and insights on appointment availability.

Data Engineer – Unimed-BH

2022 – 2023
Focus on automation, AWS, and implementation of AI models.

- Migration of critical indicators from Stata to Python on AWS.
- Data lake cost reduction through storage policies and monitoring.
- Creation of metrics and alerts for AI models.

Junior BI Analyst – Hyperlocal

2021 – 2022

- Development of dashboards (Tableau, Metabase).
- Optimization of SQL queries and ETL processes.
- Exploratory analyses and dataset structuring.

Relevant Projects

Hospital Monitoring Center – Unimed-BH

- Command center for clinical and operational indicators.

Medical Claims Audit Project – Unimed-BH

- Dashboards, automations, and models for medical claims auditing.

Analysis of Attached Documents in Transcription Requests – Unimed-BH

- Project using OCR to analyze potential fraud in documents submitted by third-party providers.

Commercial Monitoring Center – Unimed-BH

- Centralized KPI environment for commercial metrics.

Data Lakehouse with DataSUS – Personal Project

- Complete pipeline with ingestion, validation, modeling, and visualization.

Bed Occupancy Dashboard – Personal Project

- Interactive floor plan showing real-time occupancy.

Education

- **PhD in Mathematics – UFMG (On hold)**
- **Master's in Mathematics – UFV**
- **Bachelor's Degree in Mathematics – UFOP**

Languages

- **Portuguese (native)**
- **English (advanced)**