

Henrique Givisiez dos Santos

DATA ENGINEER | CLOUD & FINOPS ANALYST

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ABOUT

Data Engineer focused on building cloud-based, cost-efficient data pipelines and analytics solutions. Experienced in designing end-to-end data architectures using Microsoft Fabric (Lakehouse), Power BI, and Python (PySpark) — transforming raw multicloud data into actionable insights. My work integrates FinOps practices with data engineering, enabling organizations to make data-driven decisions on both cost optimization and operational efficiency.

TECHNICAL SKILLS

- **Languages:** Python, SQL, TypeScript, JavaScript
- **Data Engineering:** Microsoft Fabric, PySpark, Azure Data Lake, Power BI, Power Automate, REST APIs
- **Cloud & FinOps:** FinOps Framework, AWS, Azure, GCP
- **Databases:** PostgreSQL, MySQL
- **Data Modeling:** Lakehouse, ETL/ELT, Delta Tables, DAX
- **Development Tools:** Git, Linux, Windows, Next.js, Prisma ORM

PROFESSIONAL EXPERIENCE

Federal Court of Accounts (TCU), Brasília, DF

Feb 2025 - Present

Data Engineering Intern

- **Multicloud Cost Intelligence Platform:** Designed an end-to-end data architecture in Microsoft Fabric to centralize cost data from AWS, Azure, and GCP. Built automated ETL pipelines with Power Automate and Python, reducing manual data handling and providing near real-time insights on cloud expenditures.
- **Data Lakehouse Implementation:** Structured a Lakehouse architecture in Fabric to store and transform data from the Azure Boards API, enabling auditors to monitor supplier performance and contract compliance.
- **Power BI Analytics:** Developed analytical dashboards using DAX and dataflows, integrating cost trends, anomaly detection, and FinOps KPIs such as Cost per Resource and Commitment Utilization.
- **Automation Scripts:** Built Python scripts for batch data ingestion and cleansing (Pandas + Fabric API), improving pipeline reliability and data lineage traceability.

STRUCT EJ, Brasília, DF

Feb 2025 - Present

Web Developer and Project Leader

- **Technical Leadership and Mentorship:** Acted as a Project Mentor, providing technical guidance to development teams, conducting code reviews (PRs), and ensuring the high quality of the final product as well as client satisfaction.
- **Project Management (Project Roma):** Led the "Project Roma" initiative as Project Manager, a web system for the internal management of a restaurant. I was responsible for the complete project lifecycle, including planning, team management, task definition, documentation maintenance, and strategic communication with the client.
- **Full Stack Development (T3 Stack):** Actively participated in the project's development using the T3 Stack (Next.js, TypeScript, Tailwind CSS, tRPC), being responsible for coding the interfaces, the back-end communication architecture via tRPC, and the database modeling with Prisma ORM..

Banco do Brasil, Brasília, DF

Jun 2023 – Feb 2025

Engineering Intern

- Developed Python automation scripts for processing large datasets of engineering blueprints using `os` and `shutil`, **improving document retrieval speed by 80%**.
- Built Excel-based analytics tools with integrated Python data processing for technical budget forecasting, **enhancing accuracy and reducing manual effort**.
- Supported workflow optimization through data-driven process reviews, **improving project tracking and operational control**.

Centro Educacional Sigma, Brasília, DF

Jun 2022 – Jun 2023

Physics Tutor

- Developed **communication and teaching skills** by leading classes and tutoring sessions, simplifying complex Physics concepts for high school students.
- Applied **analytical reasoning** in creating preparatory exercises for university entrance exams, focusing on logical structuring and problem-solving.
- Collaborated with the faculty in assisting with and preparing class materials, and graded assessments to provide **constructive feedback** to students.

EDUCATION

University of Brasília (UnB), Brasília, DF

- Bachelor's in Computer Engineering

Casa Thomas Jefferson, Brasília, DF

- CLASSIC EXPERT Course, completed in 2019

LANGUAGES

Portuguese

Native

English

Fluent

SELECTED PROJECTS

FinOps Cost Analytics Platform (Microsoft Fabric + Power BI)

Developed a modular Lakehouse-based architecture integrating data from AWS, Azure, and GCP billing exports. Implemented DAX measures for cost optimization metrics (MoM variance, forecast accuracy, idle resource detection) and published an interactive Power BI dashboard.

Azure Boards Data Pipeline (Python + Fabric)

Automated extraction and ingestion of project management data via Azure Boards REST API into a Fabric Lakehouse, enabling compliance tracking through visual dashboards.

Data Engineering for Traffic Analytics (Google Maps Routes API + Power BI)

Built an end-to-end data pipeline to analyze daily traffic patterns using the Google Maps Routes API. Collected ETAs (with and without traffic) every 10 minutes for 7 days via Python (PySpark), ingested data into a Fabric Lakehouse, and transformed it with Power Query for comparative metrics. Designed a Power BI dashboard highlighting route efficiency and traffic impact — revealing an average +21.5% increase in travel times during peak hours.

Data-driven Contract Auditing

Developed analytical queries and Power BI visuals to support audit decisions using data integrated from multiple clouds (Azure, AWS and GCP).