

HENRIQUE DA SILVA MACEIRA

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PROFESSIONAL SUMMARY

Data Engineer and Analyst with 3+ years of experience in high-scale production environments. Specialized in Python, SQL, Spark (PySpark), and AWS architecture, with a strong focus on building resilient data pipelines, process automation, and real-time monitoring systems. Successfully reduced the execution time of critical jobs by up to 80% and saved over 50 hours/month through automation initiatives while proactively preventing failures in transactional decision engines.

TECHNICAL SKILLS

Languages: Python, SQL, PySpark, Bash

Cloud & Platforms: AWS (Glue, Lambda, Athena, S3, EC2, IAM)

Data Engineering: ETL/ELT, data modeling, partitioning, Spark job tuning, data lakes

Monitoring & Automation: Datadog, custom logging, Power Automate, Step Functions

Best Practices: Git, CI/CD (GitHub Actions), Pytest, documentation, PEP8 compliance

Additional Tools: Tableau, QuickSight, PowerApps, JIRA, Confluence

PROFESSIONAL EXPERIENCE

Jr. Analytics Engineer - Fraud Prevention (Data Engineering Focus)

Itaú Unibanco - São Paulo, Brazil | Jan 2025 - Present

- Designed and deployed a monitoring system architecture using AWS Glue, Athena, Step Functions, and S3, ensuring full traceability and automated alerting for all critical fraud prevention flows.
- Developed statistical models to detect anomalies and failures in transactional decision engines, improving incident response time by 40%.
- Automated alert notifications via Python integrated with Power Automate and SharePoint, streamlining feedback loops and escalation workflows.

Jr. Data Analyst - Fraud Prevention (Data Engineering Focus)

Itaú Unibanco - São Paulo, Brazil | Aug 2022 - Jan 2025

- Built scalable data pipelines using AWS Glue and PySpark to process over 3 million records daily, achieving up to 70% performance gains.
- Implemented CI/CD pipelines using GitHub Actions, eliminating manual deployment errors and increasing deployment consistency.
- Reengineered over 20 operational workflows with Python and Step Functions, saving 50+ hours per month and minimizing human error.
- Created real-time alerting systems using Datadog and PowerApps, reducing average incident response time by 25%.

Jr. Fraud Prevention Analyst

Itaú Unibanco - São Paulo, Brazil | Dec 2021 - Aug 2022

- Supported the rollout of a new incident management system, which increased fraud traceability by 30%.
- Collaborated with Salesforce integration teams to define data integration requirements and automation use cases.
- Conducted root cause analyses that led to standardization across multiple ingestion pipelines.

EDUCATION

Federal University of ABC (UFABC)

Bachelor's in Science and Technology - Expected Completion: Dec 2025

PROJECT HIGHLIGHTS

- Refactored Spark pipelines (Glue + PySpark), improving execution performance by 80% with fully documented, PEP8-compliant code.
- Built a cross-squad operational alert layer using Python and PowerApps, adopted by three different squads.
- Migrated Tableau dashboards to Amazon QuickSight, cutting load time by 30% and reducing licensing costs.

ATS-OPTIMIZED KEYWORDS

Python, SQL, PySpark, AWS Glue, Lambda, Athena, S3, EC2, CI/CD, GitHub Actions, Git, Big Data, Monitoring, Automation, Observability, Data Modeling, Spark Optimization, Data Lakes, Step Functions, Power Automate, PowerApps, Real-Time Alerting