

FELIPE MACHADO

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PROFESSIONAL SUMMARY

Data Engineer with two years at Serasa Experian supporting and improving production pipelines at scale with Spark (Scala), Airflow, and AWS. Delivered measurable results: 93% DAG speedup, 20-minute manual review cycle cut to under 2 minutes, 3-hour process cut to 15 minutes. Strong at incident investigation, pipeline debugging, and Python automation in production.

TECHNICAL SKILLS

Languages: Python, Apache Spark (PySpark/Scala), SQL

Data Engineering: dbt, ETL/ELT, Apache Airflow, Data Modeling, Data Contracts

Cloud & Infra: AWS (S3, Glue, Lambda, RDS, ECS, EKS, DynamoDB, CloudWatch), Docker, CI/CD

Integrations: REST APIs, Webhooks, Git

PROFESSIONAL EXPERIENCE

Serasa Experian - Data Engineering & Architecture

Data Architecture Intern | July 2025 - February 2026

- Built PR validation system from scratch (Bitbucket API + webhooks + Teams), cutting review cycle from 20 min to under 2 min; actions logged to live tracking spreadsheet.
- Automated MF-to-JSON conversion with name standardization and discrepancy detection, reducing manual analysis from 3 hours to 15 minutes.
- Participated in data contract and pipeline naming standardization across production environments.

Data Engineering Apprentice | January 2024 - July 2025

- Removed inefficient threshold declarations from Spark (Scala) pipeline, reducing critical stage from 8 min to 3 sec (93% faster).
- Investigated and resolved production incidents in Spark pipelines using Airflow logs and AWS diagnostics.
- Executed rollbacks and hotfixes on production deployments under time pressure.
- Adapted Python and YAML orchestration templates for new data workflows.

PROJECTS

Analytics Platform - github.com/felipemchdev

- Batch pipeline (dbt + Airflow + PostgreSQL) analyzing social media performance via Medallion Architecture, with cross-platform engagement normalization, quality tests, and Streamlit dashboard.

EDUCATION

B.Sc. in Computer Engineering - Centro Universitario Central Paulista (UNICEP) | Expected: December 2027

LANGUAGES

Portuguese - Native | English - C1 | Spanish - B2