

Yassine Bouassida

Data Engineer

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PROFESSIONAL SUMMARY

Data Engineer at Cognizant building Python and Colibra tooling that evaluates and automates data-governance workflows for an insurance-industry client. Hands-on pipeline experience with Airflow, Snowflake, dbt and PostgreSQL from team training projects, plus earlier backend work on Scala microservices and internal automation tools used daily by business teams.

TECHNICAL SKILLS

Data Engineering: Python, SQL, Apache Airflow, Snowflake, dbt, PostgreSQL, ETL / ELT, pandas, Bronze / Silver / Gold modeling

Data Governance: Colibra, Data governance, Classification metrics, Model Context Protocol (MCP)

Backend & APIs: Scala, REST APIs, Microservices, Cassandra

Tools & Testing: Streamlit, Docker, pytest, Jenkins

PROFESSIONAL EXPERIENCE

Data Engineer, Cognizant | Apr 2026 – Present

- Built a Python and Streamlit tool that scores a data-classification workflow in Colibra against legacy labeled data, reporting precision, recall, F1 and accuracy.
- Mapped classifications to personally identifiable information (PII) and protected health information (PHI) groups, with run history, unmatched-record review and retries for failed API calls.
- Built a read-only Model Context Protocol (MCP) integration over Colibra metadata APIs so engineers and AI coding agents can query governance metadata without the UI.

Data Engineer/Developer, Revature (Paid training program) | Jan 2026 – Apr 2026

- Completed a paid, full-time 12-week data engineering training program built around two six-week team projects: an EIA electricity pipeline and an Instacart data platform.
- Selected and hired by Cognizant as a Data Engineer through the program's interview process.

Software Engineer, Laboratoires MZL | Jan 2025 – Jan 2026

- Built a daily order-prioritization tool combining order, inventory and production data so orders missing one product no longer blocked or starved other orders.
- Built a Python and Google Sheets production-planning dashboard, used daily by the production team to see which products would run out and what to produce next.

Software Engineer, Cognira (Part-time) | Jan 2024 – Dec 2024

- Built a Python and Streamlit tool that automated multi-file CSV configuration changes with fuzzy matching and validation, turning multi-ticket batches into about half a day of work.
- Implemented a module's persistence layer on PostgreSQL for a new tenant, following a schema designed by senior engineers and using an ORM-style data-access layer in Scala.

Software Engineer, Advisiya Consulting | Sep 2023 – Dec 2023

- Built an end-to-end product compatibility and pricing tool (Python, Streamlit, PostgreSQL, authentication) that the client used daily to prepare quotes.
- Cleaned, prepared and ingested data for AI model training on a confidential (NDA) project.

PROJECTS

EIA Electricity Data Pipeline | Revature team project | Mar 2026 – Apr 2026

- Major contributor to a team ELT pipeline loading U.S. Energy Information Administration (EIA) electricity data into Snowflake RAW, SILVER and GOLD layers, orchestrated with Airflow.
- Split Airflow into hourly and monthly ingest and transform pipelines with incremental loads and serialized backfills; added dbt freshness and schema tests and a pytest coverage gate.

Instacart Bronze/Silver/Gold Data Platform | Revature team project | Feb 2026 – Mar 2026

- Owned platform and pipeline implementation for a PostgreSQL Bronze/Silver/Gold data platform on the Instacart dataset, with profiling, staged Docker runs and data-quality gates.
- Added stage reports and a Streamlit analytics app covering KPIs, reorder behavior, products, customers and baskets.

VOLUNTEER EXPERIENCE

Volunteer Software Engineer, Tunisian American Young Professionals (TAYP) | Sep 2026 – Present

- Building a nonprofit's new public website and custom content-management platform end to end with React Router, TypeScript and Cloudflare Workers, D1 and R2.

EDUCATION

Engineering Degree in Software Engineering, Mediterranean Institute of Technology, South Mediterranean University (SMU) | 2020 – 2025

CERTIFICATIONS & AWARDS

- IEEEExtreme 18.0 programming competition: 49th worldwide, 3rd in Tunisia (2024)