

FAYSSAL ZEGGAR

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No Sponsorship Required

DATA ENGINEER

PROFESSIONAL SUMMARY

Bilingual Data Engineer (French-English) with experience delivering end-to-end cloud data solutions in the pharmaceutical industry to support analytics, AI, and ML initiatives. Strong background in Snowflake-based ETL/ELT pipelines, data integration, SQL optimization, analytics enablement, and data governance in regulated environments. Experience collaborating with data scientists, engineers, SMEs, and business stakeholders to build reliable and scalable data flows.

CORE SKILLS

- **Data Engineering:** ETL/ELT pipelines, data ingestion, data integration, batch processing, workflow automation, data quality, data governance, troubleshooting
- **Cloud & Warehousing:** Snowflake, Snowflake stages, RBAC / roles, schemachange, Azure Functions
- **Programming & Databases:** Python, SQL, REST APIs, relational data modeling, query tuning, performance optimization
- **Analytics & Delivery:** Power BI, Dataiku, JMP, Git/GitHub, GitHub Actions, CI/CD concepts, Agile/Scrum, stakeholder collaboration
- **Personal Project Stack:** Spark, Kafka, Airflow, dbt, FastAPI, Streamlit, Docker (used in personal project: Recipe Data Platform)

PROFESSIONAL EXPERIENCE

Data Engineer | Sanofi - Toronto, Ontario, Canada

June 2024 - Present

- Design and maintain Snowflake-based ETL/ELT data pipelines to collect, integrate, and process manufacturing and enterprise data from APRM, MES, SAP, and LIMS systems.
- Support global manufacturing analytics by working with approximately 6,000 parameters per batch and building reliable batch-processing workflows for process and quality data.
- Build server-side scripts and API-based integrations to create and manage Snowflake stages and support scalable data ingestion workflows.
- Serve as Snowflake sysadmin for the team environment, managing roles, common databases, and schemachange-based governance to ensure reliable and compliant data access.
- Led the migration of about 30 Power BI tables and data sources to Snowflake, restructuring models and optimizing SQL for better performance, maintainability, and data governance.
- Built and maintain a user interface that simplifies access to Snowflake data tables in JMP for 60+ SMEs, improving accessibility for technical users.
- Build and enhance dashboards that deliver process, quality, and performance insights, reducing manual reporting effort and supporting data-driven decision-making.
- Use Dataiku for process modelling and optimization and for data manipulation when specific connectors are needed and API access is not available.
- Contribute to GitHub-based delivery workflows as an approver and writer for ETL pipelines, including GitHub Actions and collaborative code review practices.
- Collaborate with data scientists, engineers, smart factory teams, process teams, and business stakeholders in an agile environment to translate requirements into robust data models and reusable pipelines.

R&D Project Manager - Signal Processing / AI / Medical Devices (Intern) | Presage - Paris, France

March 2023 - October 2023

- Worked on machine learning and deep learning models for biomedical signal processing and medical device applications.
- Developed and evaluated models, exposed functionalities through REST APIs, and deployed components on Azure for prototyping and testing.
- Used Azure Functions and warehouse components in an R&D environment and contributed to product and documentation deliverables.
- Coordinated project tasks and communicated progress to stakeholders.

Engineering Intern | SECOM Engineering - Nantes, France

June 2022 - September 2022

- Supported engineering projects in a multidisciplinary environment, contributing to technical analyses and documentation.
- Worked with cross-functional teams on industrial engineering topics, applying problem-solving and teamwork skills.

Engineering Intern - Study Office | Nidaplast Composites - France

June 2021 - July 2021

- Developed a Visual Basic tool to automate quotation creation with up-to-date pricing, improving speed and consistency for sales and engineering teams.
- Built an ergonomic Visual Basic tool to perform hydraulic technical studies and generate illustrated PDF reports for different water-retention scenarios.

PERSONAL PROJECTS

TikTok Recipe Intelligence / Tastagram | Personal Project

[Project page](#)

- Built a Snowflake-centered social recipe intelligence platform with Bronze/Silver/Gold modeling, OpenRouter LLM enrichment, dbt/Spark transformations, Airflow orchestration, and Kafka ingestion.
- Created Tastagram, a user-friendly public recipe discovery site, plus FastAPI and Streamlit surfaces for filtered metadata, analytics, and data quality review.
- Documented the platform with a case study, technical deep dive, GitHub repository, and live demo for recruiter and technical review.

World Cup AI Platform | Personal Project

[Project page](#)

- Built an Azure-oriented football data and ML platform using StatsBomb Open Data, Azure Blob Storage, Parquet Bronze/Silver/Gold layers, and Python transformations.
- Trained leakage-aware pre-match baselines with scikit-learn and exposed match predictions through FastAPI endpoints.
- Defined an Azure deployment path with Docker and Terraform for Storage, ACR, Key Vault, Container Apps, and observability, with pytest/Ruff/Black/mypy quality checks.

EDUCATION

Master's Degree - Generalist Engineering (AI & Biomedical Engineering)

IMT Atlantique - France | 2020 - 2023

Diplome d'ingenieur program with AI, machine learning, deep learning, data management, and biomedical engineering focus.

Exchange Semester - Electronic and Life Science Engineering

Universidad de los Andes - Bogota, Colombia | January 2022 - June 2022

- Completed an international exchange semester focused on electronic and life science engineering.

CERTIFICATIONS

- Industrial Biotechnology - University of Manchester (December 2024)
- Dataiku Core Designer - Dataiku (November 2024)
- Introduction to Modern Data Engineering with Snowflake - Snowflake (November 2024)

LANGUAGES

French (Native) | English (Fluent) | Spanish (Fluent)