



Zakaria TOZY

Data Engineer | CDI

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Computer Science and Data Science Engineer with a dual degree (ECE Paris/Polytechnique), combining technical expertise in data engineering with experience in financial data processing at AXA IM. Seeking to contribute to innovative projects.

SKILLS

- Programming** : Python, SQL, Java, JavaScript, C++, C#
- Data Cloud Engineering** : PySpark, ETL, Data Pipelines, Databricks, Snowflake, GCP, Azure, S3, dbt, Airflow
- Machine Learning** : Scikit-Learn, NLP, Computer Vision, Deep Learning, LLM, API Integration
- Devops** : Docker, CI/CD, Git, Scrum
- Soft Skills** : Problem Solving, Team Collaboration, Technical Leadership, Innovation Mindset
- Languages** : French (Native), Arabic (Native), English (Fluent - TOEIC 875)

EDUCATION

- École Centrale d'Électronique (ECE Paris)** January 2024
Engineering Degree in Computer Science and Big Data Analytics Top 5% of class
- Specialization : Programming, Databases, Electronics, DevOps
- Institut Polytechnique de Paris (École Polytechnique)** January 2024
Master's Degree in Data Science With Highest Honors
- Specialization : Machine Learning, Big Data, Cloud Infrastructure, Deep Learning, NLP

EXPERIENCE

- AXA Investment Managers - AXA IM** August 2023 — January 2024
Data Engineer/Data Analyst Intern Paris
- Designed and implemented data pipelines for business and historical data ingestion and management
 - Optimized data model and migrated distribution pipelines for financial reporting of €844 billion in assets
 - Tested new Databricks clusters and created a PoC for sensitive data anonymization
 - Built dashboards and calculated KPIs for distributed vision (ME, OV, CIS, FX)
- Kalima Blockchain and IoT** April 2022 — August 2022
Software Engineer Intern Paris
- Developed a proprietary Kalima blockchain explorer in Java/LevelDB (+1000 transactions per second)
 - Implemented new administration features for Kalima proprietary blockchain using Node.js
 - Designed and developed a multi-signature authentication system for DApps (Decentralized Applications) on Kalima blockchain
- Le Crédit Lyonnais - LCL** January 2020 — February 2020
IT Intern Paris
- Studied Microsoft Office migration from 2010 to 2016 and analyzed its impact on business processes
 - Developed and executed test procedures on 23,000 workstations

PROJECTS

- Bitcoin Analysis**
- Created a data pipeline using Python, SQL, Airflow, dbt, and Snowflake for Bitcoin transaction analysis, processing over 1 million transactions per day
- Twitter Real-time Analysis**
- Developed a real-time visualization system for Twitter streams by subjects using Kafka and KNN (K-Nearest Neighbors) algorithm
- Energy Disaggregation with Capgemini**
- Extracted the temperature-sensitive component of energy consumption to forecast future demand in France