Zakaria TOZY
Data Engineer

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Computer Science and Data Science Engineer with a dual degree (ECE Paris/Polytechnique), combining strong technical expertise in data engineering with experience in financial data processing at AXA IM. Passionate about building robust data platforms and implementing AI solutions, I am seeking to contribute to innovative and transformative projects.

SKILLS

Programming : Python, SQL, C#, Java, C++
Machine Learning : Scikit-Learn, NLP, Computer Vision, Deep Learning
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)
Data & Cloud Engineering : PySpark, ETL, Data Pipelines, dbt, Databricks, Snowflake, GCP, NoSQL

EDUCATION

École Centrale d'Électronique (ECE Paris)   Jan 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)   Jan 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   Aug 2023 — Jan 2024
Data Engineer/Data Analyst Intern   *Paris*

- Designed and implemented data pipelines for business data ingestion
- Optimized data model and migrated distribution pipelines used for financial reporting of €844 billion in assets in 2023
- Created a PoC (Proof of Concept) for sensitive data anonymization, emphasizing data security and privacy
- Built interactive dashboards for financial KPIs monitoring
- Collaborated with cross-functional teams to improve data processes and workflows

Kalima Blockchain and IoT   Apr 2022 — Aug 2022
Software Engineer Intern   *Paris*

- Developed a blockchain explorer in Java/LevelDB (+1000 transactions per second)
- Implemented new administration features for Kalima blockchain using Node.js
- Designed and developed a multi-signature authentication system for DApps (Decentralized Applications)

Le Crédit Lyonnais - LCL   Jan 2020 — Feb 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 topics using Kafka and KNN (K-Nearest Neighbors) algorithm

Energy Disaggregation Capgemini

- Extracted the temperature-sensitive component of energy consumption to forecast future demand in France