YOUSSEF.BOUTALEB

Data Integration Engineer

Professional Profile

Data Engineer with experience in building data platforms and integration solutions in the luxury retail and fashion industry. Skilled in ETL development, cloud infrastructure deployment on Azure, and data security. Proficient in automation, monitoring, and ensuring scalable and reliable system operations.

Skills

- **Data Integration & APIs:** Talend, MuleSoft, Make, Apache Camel
- **Cloud & Infrastructure:** Azure (Automation, Application Gateway, SSL/TLS, VM, Blob Storage), Apache Karaf
- **Databases & Messaging:** SQL Server, PostgreSQL, Cosmos DB, MongoDB, Redis, ActiveMQ, SFTP, SMB
- **Monitoring & CI/CD:** Datadog, GitHub Actions, Postman
- **Data Orchestration & Processing :** Apache Airflow , Apache Spark
- **DevOps / Containerization:** Docker, Kubernetes, Terraform
- **Programming Languages:** Python, Java, SQL, PowerShell
- **Collaboration & Agile:** Jira, Confluence, Agile/Scrum
- **Domains:** E-commerce, Retail, Order Management

Education

- Computer Science Engineer's degree – ENIS (TN) – 2024
- Bachelor of Engineering (BE, mathematics and physics) – ISSATMH (TN) – 2021

Certifications

- MuleSoft Certified Developer Level 1
- MuleSoft Certified Developer Level 2 (In progress)
- Talend Data Integration Certified Developer
- Make Level 1 Foundation
- Make Level 2 Basics
- MAKE Level 3 Intermediate
- Datadog Certified: Datadog Fundamentals
- Datadog Certified: APM & Distributed Tracing Fundamentals

Scientific Papers & Articles

Scientific Papers:

- Secure and transparent energy management using blockchain and machine learning anomaly detection: A case study of the Ausgrid dataset
- FPDN: A Framework for Pothole Detection and Notification (In Progress)

Articles:

- Developing a Custom YOLOv8 Model for Number Detection on Meters Using FastAPI and Gradio
- Simplify Your Log Management: Configuring DataDog with Log4j2 In Mulesoft

Experience

JACQUEMUS – Aug 2024 – Current

Data Integration Engineer / Operations Engineer

Data Integration:

- Built ETL pipelines with Talend for scalable and secure data workflows
- Managed Azure SQL, Azure Blob Storage, and SQL scripts for data setup and access control
- Partnered with stakeholders to define requirements and transformation logic

Operations Engineer:

- Deployed Azure infrastructure (Windows Server VMs, Application Gateways, DNS, Dev/Test/Prod segregation)
- Implemented IAM policies, IP restrictions, SSL certificates, and domain setup
- Set up Datadog monitoring with dashboards and real-time alerts
- Automated shutdown schedules for Dev/Test to reduce cloud costs
- Automated daily system checks to ensure high availability
- Documented architectures, runbooks, and deployment processes for scalability

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Higher Institute of Commerce and Management Sfax – Sep 2024 – May 2025

University Lecturer

- Designed and delivered lectures on Big Data, Data Warehousing, and ETL concepts
- Demonstrated real-world data engineering use cases with Python, PostgreSQL, and Power BI
- Mentored students on building data pipelines and scalable architectures from specification to deployment
- Taught best practices in data security and data modeling (access control, secure storage, modeling standards)
- Integrated GitHub for version control and team collaboration in course projects
- Promoted collaborative learning and critical thinking using project planning tools (Trello)

OLIVESOFT – Feb 2024 – May 2024

Data Integration Engineer

- Implemented asynchronous system flow between Salesforce Service Cloud (SFSC) and Diduenjoy (feedback SaaS) to automate client surveys after purchases
- Developed integration with MuleSoft using retry management, following the API-led connectivity pattern

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OEM ENGINEERING S.A.R.L – Jun 2022 – May 2023

Data Analysis & Signal Processing Engineer

- Optimized the Savitzky-Golay numeric filter in Python (100x speedup)
- Integrated the optimized filter with infrared camera data for real-time signal processing
- Developed an ML algorithm to predict metal type using infrared camera data, filtered with the Savitzky-Golay algorithm
- Generated C# if-else tree code for real-time classification
- Applied machine learning techniques in Python and C# with a focus on materials scie