YOUSSEF BOUTALEB

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 ♥ Sfax, Tunisia

OBJECTIVE

I am a Data Engineer with 1+ years of experience in building and maintaining scalable data pipelines. Skilled in Mule-Soft, Talend, and Datadog, I am seeking a full-time Data Engineering role to apply my expertise and continue growing professionally.

EDUCATION

Computer Science Engineer's Degree (EUR-ACE® Accredited)

2021 - 2024

National Engineering School of Sfax

Bachelor of Engineering (Mathematics and Physics)

2019 - 2021

Higher Institute of Applied Sciences and Technology of Mahdia

EXPERIENCE

JACQUEMUS — Data Integration & Operations Engineer

Aug 2024 – Present

- Built secure ETL pipelines with Talend, managing Azure SQL, Blob Storage, and SQL scripts.
- Deployed Azure infrastructure (VMs, App Gateways, DNS) with security controls (IAM, SSL, IP restrictions).
- Partnered with stakeholders to align requirements and transformation logic with business goals.
- Set up Datadog monitoring, automated shutdown schedules, and daily health checks to optimize costs and availability.
- Documented architecture, runbooks, and deployment processes for scalability.

OLIVESOFT — Data Integration Engineer

Feb 2024 - May 2024

• Automated post-purchase surveys by integrating Salesforce Service Cloud with Diduenjoy using MuleSoft (API-led, retry management).

OEM ENGINEERING S.A.R.L — Data Analysis & Signal Processing Engineer

Jun 2022 - May 2023

- Developed an ML model predicting metal type from infrared data using Savitzky-Golay filtering.
- Optimized algorithm in Python (100x faster) and integrated with infrared cameras in C#.

PROJECTS

Custom YOLOv8 Model for Number Detection on Meters •

2023

Developed and deployed a deep learning model for automatic meter number detection using **YOLOv8**, served through **FastAPI** and an interactive **Gradio** interface.

Image Colorization with Deep Learning •

2023

Designed and implemented a neural network to automatically colorize grayscale images, focusing on feature extraction and realistic color mapping. This academic project highlights the use of **computer vision** and **deep learning** for image-to-image translation.

SKILLS

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

PUBLICATIONS

Secure and transparent energy management using blockchain and machine learning anomaly detection: A case study of the Ausgrid dataset Computers & Industrial Engineering

Authors: N. Moumni, Y. Boutaleb, F. Chaabane, and F. Drira

FPDN: A Framework for Pothole Detection and Notification Computers & Industrial Engineering

(In progress) 2025

Authors: S. Khemakhem, Y. Boutaleb, W. Ouarda

TEACHING

• Machine Learning — Institute of Higher Commercial Studies of Sfax,

2024 - 2025

Master's in Data Science (Year 2)

Topics: Supervised & Unsupervised Learning, Gradient Descent, Clustering (K-Means), Model Evaluation

• Data Engineering — Institute of Higher Commercial Studies of Sfax,

2024 - 2025

Master's in Data Science (Year 2)

Topics: Big Data Ecosystem, Data Warehousing, ETL Processes, Scalable Data Pipelines

CERTIFICATIONS

- MuleSoft Certified Developer Level 1
- MuleSoft Certified Developer Level 2 (In progress)
- Talend Data Integration Certified Developer
- Datadog Certified: Fundamentals
- Datadog Certified: APM & Distributed Tracing Fundamentals
- Datadog Certified: Log Management (In progress)

ONLINE COURSES

- Machine Learning Specialization deeplearning.ai (Coursera)
- Python and Flask Framework Complete Course (Udemy)
- Scrum Fundamentals Certified (SFC) (Scrumstudy)
- Data Analyst Associate (DataCamp)
- PyCharm Productivity and Debugging Techniques (Udemy)
- Build a Modern Computer from First Principles: From Nand to Tetris (Coursera)

WORKSHOPS

• Introduction to Competitive Programming

2023

Conducted a workshop introducing problem-solving strategies, algorithms, and coding techniques for competitive programming, in collaboration with the **IEEE Student Branch** at **ENIS**.

• Assembly Programming Workshop 🔾

2023

Hands-on workshop exploring low-level programming with Assembly language, organized with the **Securinets Club** at **ENIS**.

• Introduction to Python

2022

Delivered a beginner-friendly workshop covering Python fundamentals and practical applications, organized with the **IEEE Student Branch** at **ENIS**.

LANGUAGES & COMMUNITY

- Languages: English (Full professional proficiency), French (Full professional proficiency), Arabic (Native).
- Volunteer, Tunisian Red Crescent Volunteered with the Houmt Souk Djerba branch during the COVID-19 crisis, helping organize aid distribution, assisting with crowd coordination, supporting elderly individuals, and participating in collecting and distributing essential supplies.