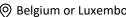## Data Scientist / Software Engineer
Junior IT engineer seeking a full-time position (CDI/CDD)

👤 23 yo 🇫🇷 French 🚗 Driving licence 📍 Belgium or Luxembourg 📞 +33 782 989 405 ✉ soulaimanmarsou@outlook.fr

SOULAIMAN MARSOU

💼 https://smarsou.fr ○ github.com/smarsou in Soulaïman Marsou

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PROFESSIONAL EXPERIENCE

Mar 2024 - Aug 2024 **PYTHON SOFTWARE DEVELOPMENT : DATABASE DESIGN & ETL PROCESS**
Internship at ANIDRIS S.A. (Contern, Luxembourg)
- Implemented in **Python** an automated **ETL process** for **multi-source data acquisition** and processing.
- Designed a CMDB (Configuration Management Database) using a Tomcat app and a **PostgreSQL DB**.
- Integration of GRAPH API and internal **REST API using Python.**
- Managed a **Red Hat Enterprise Linux** environment and **CI/CD** pipelines with **GitLab**.
- Written **user documentation**, trained employees on the tool's usage and provided **technical support**
- Technologies: **Python, PostgreSQL, Tomcat, MS GRAPH API, Red Hat Entreprise Linux, Gitlab CI/CD.**

Sept 2023 - Feb 2024 **GENERATIVE AI RESEARCH PROJECT**
At SOPRA STERIA (Strasbourg, France)
- Written a state-of-the-art research on LLMs about fine-tuning, optimization and comparison.
- Fine-tuned a model for code generation, optimized it using prompt engineering and quantization.
- Technologies: **Python, HuggingFace, QLoRA, llama.cpp, Jupyter Notebook, IBM Watson, LateX**

EDUCATION

MASTER'S DEGREE IN COMPUTER SCIENCE

IT ENGINEERING SCHOOL *TELECOM NANCY*
(Sept 2021 - Sept 2024), FRANCE
- Programming (Python, JAVA, C, PHP)
- Web-development (Flask)
- Data Science, Big Data & AI
- Soft skills
- Project Management (SCRUM, GANTT,...)

BACHELOR'S IN MATHEMATICS & PHYSICS

Joffre High School, Montpellier
(2019-2021), FRANCE

PROJECTS

AI Development - Generated text detector (Python, Flask)
↗ *https://smarsou.fr/lab/hackaton*
- Perform Exploratory Data Analysis (**EDA**) on text data using a notebook, and clean it for training.
- Vectorize the text data using FastText and train a classifier.
- Implement a **REST API using Flask** (Python) to serve the model.
- Deploy the model to a production **Linux VM** using **Docker**.

ANALYTICAL MAPPING TOOL
↗ *https://smarsou.fr/lab/viz*
- Data collection, cleaning, and transformation using **Python**.
- Dynamic map visualization over multiple years.
- Developed a web application for data exploration.

HARD SKILLS

Development
- Languages : Python, Java, C, PHP
- Web frontend/backend (Flask, Laravel, Spring)
- REST API Integration (Python, Flask, Spring)
- GITlab CI/CD pipeline configuration
- Containerization with Docker

Environment
- Comfortable with Linux (Bash, Ubuntu, RHEL)
- Microsoft Azure (Databricks, SQL Server, VM)
- LateX

AI
- Machine Learning (scikit-learn, PyTorch, matplotlib, pandas)
- Natural language processing (fasttext, word2vec, nltk)
- LLM fine-tuning (Huggingface Transformers)
- Integrate models in application with REST APIs

Data
- Design and manipulate databases (SQL & NoSQL)
- Database administration (PostgreSQL, Hbase, MongoDB)
- Exploratory Data Analysis (EDA) with Python (Pandas, Matplotlib) or Spark (PySpark)

LANGUAGES
- **French** - Mother tongue
- **English** - Read, write, communicate (TOEIC 890 points, B2 level)

PROJECT MANAGEMENT
- SCRUM - agile project management
- Organize & animate meetings
- Planning management

REFERENCES
- Jules Duarte Vala, AI Engineer at Sopra Steria