

# Manoel Malaury TOUSSI

Data & Software Engineer · MLOps

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🇫🇷 French (native) & English (B2)

## Skills

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**Big Data & ML** Airflow, Spark, Mlflow, kubeflow, Hadoop, Elasticsearch, Cassandra, DBT, AWS, GCP, PyTorch

**Software Eng.** Python, C#, Java, SQL, Linux, Git, Scripting, Code Review, DevOps

**Frameworks** FastAPI, .NET Core / ASP.NET, Angular, Matplotlib, NumPy, Pandas, Scikit-learn

**Infrastructure** Docker, Kubernetes, Terraform, OpenStack, CloudNativePG (CNPG)

**Observability** OpenTelemetry, Grafana (Mimir, Loki, Tempo), Prometheus — metrics, traces, logs, dashboards

## Professional Experience

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### Data / Software Engineer — Permanent

Jan 2026 – Present

*Systemathics · Paris, France*

- ▶ Building robust .NET applications using **gRPC, ASP.NET Core and C#**
- ▶ **PostgreSQL / TimescaleDB** database management with **CloudNativePG (CNPG)**: modeling and optimization of financial data (equities & crypto) from **Bloomberg, LSEG and Bybit**
- ▶ Built ingestion and normalization pipelines for static (reference data) and market data across major financial data providers
- ▶ Designing, training and deploying **ML / Deep Learning** models integrated into .NET microservices via gRPC or REST
- ▶ Container orchestration with **Kubernetes** for application scalability and reliability
- ▶ Infrastructure as Code using **Terraform** for automated deployment and management
- ▶ End-to-end observability for data jobs and pipelines (**OpenTelemetry**): custom metrics, distributed traces and **Grafana** dashboards (Mimir · Loki · Tempo) to monitor execution, latency and failures
- ▶ Conducting code reviews, implementing testing strategies and maintaining coding standards

### .NET / Python Terraform Developer — Contract

Jul 2025 – Dec 2025

*Systemathics · Paris, France*

- ▶ Designed and developed robust software solutions in **C# and ASP.NET Core**
- ▶ Created **Python** automation tools and data processing scripts
- ▶ Deployed and managed cloud infrastructure using **Terraform** (Infrastructure as Code)
- ▶ Participated in unit testing and continuous integration (CI) phases
- ▶ Wrote technical documentation for developed projects

### Software Engineer — Contract

May 2024 – Aug 2024

*ACTIVA*

- ▶ Developed multiple REST APIs with the **.NET Core framework in C#**, following OpenAPI 3 specifications
- ▶ Built user interfaces (UI) with **Angular**

### IT Business Analyst — Contract

Aug 2023 – Feb 2024

*ORANGE*

- ▶ Analyzed business requirements for knowledge management on **Dynamics CRM**
- ▶ Identified key accessibility issues and designed a workflow enabling users to access business applications in **under 6 hours**
- ▶ Analyzed RPA identification logs to diagnose performance drops, resulting in a **15% improvement** (Aug–Sep)

### Big Data Engineer — Internship

Jan 2023 – Jun 2023

*ORANGE*

- ▶ Identified bottlenecks in business KPI computation pipelines
- ▶ Proposed and implemented an orchestration solution using **Apache Airflow**

- ▷ Defined a migration strategy for existing pipelines toward Apache Airflow
- ▷ Developed a script generating a data lineage graph showing computational dependencies between tables

### Elastic Developer — Internship

Aug 2021 – Jan 2022

*BICEC*

- ▷ Deployed the Elastic stack (**Elasticsearch, Kibana, Logstash**) to monitor client transactions
- ▷ Developed an **effective interest rate (TEG)** calculation file for non-amortizable loans, compliant with COBAC banking regulations

## Education

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### Master of Science — AI, Data & MLOps Expert

2024 – 2025

*Télécom Paris*

- ▷ Hadoop & Cloud, Distributed Systems, SQL & NoSQL, IoT
- ▷ Statistics, Machine Learning & AI, MLOps, Data Visualisation

### Engineering Degree — Computer Science

2018 – 2023

*UCAC-ICAM*

- ▷ Algorithms, OOP, Data Structures, Software Development, Operations Research

## Certifications & Awards

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Certified Associate in Python Programming (PCAP) **08/2022**

AWS Certified Cloud Practitioner **10/2021 – 10/2024**

Scrum Fundamentals Certified (SFC) **2022**

Bronze Elastic Contributor Prize **2021**

Smart Analytics, Machine Learning, and AI on Google Cloud **2023**

Multiple GCP Certificates: [Cloud Skills Boost Profile](#)