

# Filippo Mameli

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## Summary

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Experienced **Data Engineer** with a Master's Degree in Data Science. Skilled in data engineering and machine-learning techniques, able to create effective solutions. Collaborative team player driven by innovation and problem-solving. Committed to using data strategically to improve processes and provide valuable insights.

## Education

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**University of Florence**, Master's Degree in Computer Science - Data Science 04/2020

- Thesis: "A NoGAN approach for image and video restoration and compression artifact removal" (presented at ACM Multimedia)
- Provided guidance and assistance as a university tutor within the Department of Computer Science at the University of Florence.
- Final grade: **110/110**

## Experience

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**Big Data Engineer**, Agile Lab — Fully Remote 09/2024 – Present

- Technical lead for client onboarding and integrations on the **Witboost** data-product platform.
- Designed and delivered cloud-native data pipelines using **AWS** services, including **SageMaker**, focusing on **performance** and **scalability**.
- **Active contributor** to internal training and knowledge-sharing initiatives.

**Machine Learning Engineer**, Data Reply — Fully Remote 05/2022 - 07/2024

- Developed predictive algorithms for fleet management using Databricks and AWS Glue, improving performance and reducing maintenance costs.
- Managed an **API-development** team, ensuring smooth collaboration and timely delivery.
- Managed a **100-TB Databricks data-hub** platform with **DBT** and **Terraform**; built a feature store and developer utilities for data-science teams.

**Data Engineer**, Dbiz — Arezzo 06/2021 - 05/2022

- Created **interactive dashboards** for corporate-spend reporting and automated data extraction, manipulation, and scheduling pipelines.
- Designed and developed serverless mobile/web applications on AWS.

**Data Engineer**, NTT Data — Milan 06/2020 - 06/2021

- Built and deployed **big data products** in a **microservices architecture**, processing 10 million messages/hour with Kafka (Java/Python).
- Orchestrated containerized deployments with OpenShift and Kubernetes.
- Managed **DevOps** pipelines with Jenkins to streamline releases.

## Skills

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**Programming Languages:** Python, Java/Scala, JavaScript, Go, Elixir, Rust

**AI/Machine Learning:** Bedrock, PyTorch, FastAI, MLflow, Keras, Scikit-learn, NumPy, Matplotlib, Hugging Face

**Big Data & Databases:** Sagemaker, Databricks, Spark, DBT, Kafka, Hadoop, SQL, DynamoDB, Akka, Pandas

**Web Frameworks:** Next.js, React, React Native, GraphQL/REST, Amplify

**Tools & DevOps:** Git, Bash/Zsh, Terraform, Docker, Kubernetes/OpenShift, VS Code, Jupyter Notebook

**Cloud:** AWS, Azure, Associate Cloud Engineer - Google Cloud, Vercel

**Languages:** Native Italian speaker; proficient in **English** (Cambridge First Certificate).