

Filippo Mameli

Data Engineer

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Work experience

- Data Engineer** 06/2021 - On going
Dbiz S.R.L.
- Data ingestion (extraction, manipulation and scheduling) for Power BI reports.
 - Design and development of a serverless Mobile/Web application using AWS Amplify
 - Development of a web application using Django + React
- Data Engineer** 07/2020 - 06/2021
NTT Data
- Development and deploy of data science/big data products in a microservice architecture
- Scala/Java and Python development
 - Deployment with Openshift/Kubernetes
 - DevOps pipelines with Jenkins
- University tutor** 10/2017 - 10/2019
University of Florence
- The main focus of the job was helping the freshmen students of the Computer Science faculty at the University of Florence
- Software developer** 04/2016 - 09/2016
GFT, Siena (Italy)
- I was an external consultant for the bank "Monte Dei Paschi di Siena". The main activity was building enterprise services in Java

Education

- Master's degree in Computer Science (Data science)** 2016 - 2020
University of Florence
- Thesis: Deep Learning Techniques to Image Compression Artefact Removal ([Github](#) , [Pubblication](#))
Grade: 110/110
- Bachelor's degree in Computer Science** 2012 - 2016
University of Florence
- Thesis: Devising a Run-time Monitor for Continulative Access Control in FACPL ([PDF](#))

Projects

Artefact removal GAN (Thesis)

[Github link](#)

A deep neural network for jpeg artefact removal

Tools: Python, Pytorch, FastAI, Jupyter

K-means Hadoop

[Github link](#)

K-means clustering with Apache Hadoop

Tools: Java, Maven, Hadoop, AWS EMR

Data Ingestion with Kafka

Development of a framework capable of real-time processing of customer data in the retail sector for a predictive model and dashboards.

Tools: Java, Akka stream, Kafka

Skills

Programming languages

- Python
- Java/Scala
- Javascript/Typescript

Web

- Django
- Next.js
- React, React-Native
- GraphQL/REST
- Amplify

Big Data and Databases

- Hadoop
- Kafka
- SQL
- MongoDB/DynamoDB
- Weka
- Akka
- Pandas

AI/Machine Learning

- FastAI
- Pytorch
- Keras
- Scikit-learn
- Numpy
- Matplotlib

Tools

- Git
- Bash, Zsh
- Visual Studio Code
- Docker, Docker-Compose
- Openshift
- IntelliJ, Eclipse, PyCharm
- Jupyter Notebook
- OS: Ubuntu, MacOS, Windows

Cloud

- AWS
- GCP

Languages

- Italian (native)
- English

Certifications

- First Certificate - Level B2
- Associate Cloud Engineer - Google Cloud

Currently studying

- [Quantitative Economics with Julia](#)
- [Designing Data-Intensive Applications](#)

Contacts

- [Linkedin Profile](#)
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