

Walter Catalfamo

cata.walter@gmail.com | +33766629015

 github |  linkedin

EDUCATION

Master's Degree in Computer Engineering

Politecnico di Milano

Sep 2020 - Jan 2023

Milan, Italy

Bachelor's Degree in Computer Engineering

Politecnico di Milano

Sep 2017 - Jul 2020

Milan, Italy

SKILLS

Programming Languages Python | Java | Javascript | C++ | SQL | PHP
Databases & Messaging Couchbase | MongoDB | MySQL | Apache Kafka
DevOps & Cloud Docker | Kubernetes | Microsoft Azure | Argo CD | Istio | Jenkins

EXPERIENCE

Amadeus

May 2023 - Present

Backend Developer

Nice, France

- Developed and maintained RESTful APIs for a distributed, cloud-native system on Azure using Java and Quarkus.
- Deployed and managed applications on Kubernetes using Helm and Argo CD, following GitOps principles.
- Integrated event-driven communication using Apache Kafka and managed NoSQL database (Couchbase).
- Configured Istio service mesh for traffic management, mTLS encryption, and observability.
- Acted as Scrum Master within a SAFe framework to guide team productivity and organization.

Private Tutoring

Sep 2019 - Present

- Provide private tutoring in advanced subjects across Math, Physics, Electronics, and Computer Science.

Politecnico di Milano

Sep 2021 - Feb 2023

Teacher Assistant

Milan, Italy

- Led lab sessions and graded assignments for the *Probability and Statistics* course.
- Co-taught fundamental programming concepts in C and MATLAB for the *Foundations of Computer Science* course.

UniTrekking

Oct 2021 - May 2023

Mountain Guide

Milan, Italy

- Responsible for leading groups on treks in the Alps, developing strong leadership and social skills.

NOTABLE PROJECTS

Skillogue

2022

Full-Stack Social Network

Personal Project

- Developed a social network in **Flutter** from the ground up to connect people based on shared hobbies and passions, managing the project from conception to deployment.

Schema Query Reverse Engineering

2022

Data Engineering Tool

Academic Project

- Designed and implemented an algorithm in **Python** to reverse-engineer a database's schema mapping.

NikiTranslator

2022

Multi-Language Learning App

Personal Project

- Built a translator app in **Python** that translates sentences into multiple languages simultaneously in order to reveal cross-linguistic patterns and helps users track frequently used words in a personal dictionary.

PUBLICATIONS

- **Walter Catalfamo, et al.**, "*Schema Query Reverse Engineering*," Politecnico di Milano, Oct 2022.

LANGUAGES

- **Native:** Italian
- **Fluent:** English, French, Spanish
- **Conversational:** Portuguese
- **Basic:** Dutch, German, Turkish