

Walter Catalfamo

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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

Languages Python | Java | C++ | SQL | PHP

Backend Development Apache Kafka | Hibernate | Node.js

Databases MongoDB | Couchbase | MySQL

Cloud & DevOps Docker | Kubernetes | Microsoft Azure

EXPERIENCE

Amadeus

2023 - Present

Backend Developer

Nice, France

- Developed and maintained high-throughput C++ and Java microservices for travel technology solutions, contributing to systems that handle thousands of transactions per minute.
- Engineered and optimized data synchronization pipelines using Apache Kafka, MongoDB, and Couchbase, improving data consistency and reducing processing latency by over 15
- Deployed and managed containerized applications using Docker, Kubernetes, and OpenShift on the Microsoft Azure cloud platform, enhancing service scalability and reliability.
- Authored and refactored complex database queries for NoSQL databases, leading to significant improvements in API response times and overall application performance.

Politecnico di Milano

Sep 2021 - Feb 2023

Teacher Assistant

Milan, Italy

- Led lab sessions and graded assignments for the *Probability and Statistics* course (Fall 2022).
- Co-taught fundamental programming concepts in C and MATLAB for the *Foundations of Computer Science* course (Fall 2021).

Private Tutoring and Guiding

Sep 2019 - Present

Private Teacher and Mountain Guide

- Provide private tutoring in advanced subjects across Math, Physics, and Computer Science.
- Organize and lead group hikes as a Mountain Guide with UniTrekking.

NOTABLE PROJECTS

Skillogue

Ongoing

Full-Stack Social Network

Personal Project

- Developing a social network from the ground up to connect people based on shared hobbies and passions, managing the project from conception to deployment.
- **Tech Stack:** Flutter and Dart for the cross-platform mobile front-end, with Supabase providing the backend-as-a-service for database and user authentication.

NikiTranslator

2022

Multi-Language Learning App

Personal Project

- Built a translator app that translates sentences into multiple languages simultaneously and helps users learn by tracking their most frequently used words in a personal dictionary.
- **Tech Stack:** Developed as a cross-platform mobile application using Flutter and Dart.

Schema Query Reverse Engineering

2022

Data Engineering Tool

Academic Project

- Designed and implemented an algorithm to reverse-engineer a database's schema mapping based on a series of query outputs.
- **Tech Stack:** Core logic implemented in Java.

LANGUAGES

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