# Walter Catalfamo

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 github |  linkedin

## EDUCATION

**Master's Degree in Computer Engineering**                    Sep 2020 - Jan 2023
*Politecnico di Milano*                                              *Milan, Italy*

**Bachelor's Degree in Computer Engineering**                  Sep 2017 - Jul 2020
*Politecnico di Milano*                                              *Milan, Italy*

## SKILLS

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

**Technologies**   Apache Kafka | Hibernate | Node.js | MongoDB | Couchbase | MySQL | Docker | Kubernetes | Micros

## EXPERIENCE

**Amadeus**                                                          2023 - Present
*Backend Developer*                                                  *Nice, France*
- Developed and maintained RESTful APIs for a distributed, cloud-native system on Azure using Java and Quarkus, focusing on performance, security, and scalability. • Deployed and managed applications on Kubernetes using Helm and Argo CD, following GitOps principles for consistency and reliability. • Integrated event-driven communication using Apache Kafka and managed NoSQL databases (Couchbase) for data persistence. • Configured Istio service mesh for traffic management, mTLS encryption, and observability (distributed tracing, metrics). • Acted as Scrum Master within a SAFe framework to guide team productivity and organization.

**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.

**Private Tutoring**                                            Sep 2019 - Present
- Provide private tutoring in advanced subjects across Math, Physics, Electronics, and Computer Science.

**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 from the ground up to connect people based on shared hobbies and passions, managing the project from conception to deployment. **Tech Stack:** Flutter/Dart (front-end) and Supabase (backend-as-a-service).

**NikiTranslator**                                                         2022
*Multi-Language Learning App*                                     *Personal Project*
- Built a translator app that translates sentences into multiple languages simultaneously and helps users track frequently used words in a personal dictionary. **Tech Stack:** Developed as a desktop application in Python.

**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 Python.

## PUBLICATIONS

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

## LANGUAGES

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