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

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*

I was part of the team that developed RESTful APIs for a distributed, cloud-native data management system running on Azure. I used Quarkus and Java, always keeping performance, security, and scalability in mind. For data persistence, I worked hands-on with NoSQL databases – specifically Couchbase. I also integrated our system with Kafka to enable event-driven communication. I handled deploying and managing our applications on Kubernetes. I used Helm charts and Argo CD, following GitOps principles to keep things consistent. We used Istio service mesh, and I got really involved with its traffic management features, mTLS encryption, and the observability tools (like distributed tracing and metrics). In addition to my development work, I also took on the role of Scrum Master within our SAFe framework, helping the team stay organized and productive.

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*
- 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 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.

LANGUAGES

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