Michele Dinelli

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Education

MSc – Computer Science 2023–2025
Alma Mater Studiorum University of Bologna GPA: 4.0

Relevant coursework: Quantum Computing, Cryptography, Deep Learning, Scalable and Cloud Programming, Emerging Programming Paradigms, Context-Aware Systems, Artificial Intelligence, Computational Math, Computer Graphics, Digital Forensics, Databases.

Bachelor – Computer Science for Management 2019–2022
Alma Mater Studiorum University of Bologna GPA: 3.9

Relevant coursework: Algorithms and Data Structures, Operating Systems, Databases, Statistic, Numerical Methods for Calculation, Calculus, Linear Algebra, Internet Architecture, Web Technologies, Programming Languages.

Experience

Cubbit Sep 2024 - Dec 2024
Backend Software Developer – Intern

- Developed a Go-based microservice to enable webhooks for Cubbit's users.
- Integrated with Kafka to process hundreds of thousands of events per second and trigger webhook calls based on user-defined configurations.
- Webhooks are configurable through REST APIs and requests coming from webhooks triggers are secured with HMAC signatures.
- Designed the microservice to handle high request peaks, such as during backups, ensuring scalability and high concurrency.
- Worked in a multi-country team, following the Agile model.

Cineca Nov 2022 - Nov 2023
Backend Software Developer – Full Time

- Maintained and developed multiple microservices used everyday by most Italian universities.
- Primarily used Java and Spring Framework for backend development.
- Improved performance by removing SQL inefficiencies and optimizing critical APIs code.
- Increased test coverage from less than 10% to 40% on a critical, large-scale service that enables personell evaluation.
- Managed deploys on Openshift (K8s) cluster and used log monitoring tools such as Elastic and Grafana to debug pods.
- Worked following the Agile model.

Academic Experience

Research Fellow June 2025 – Current
AAA: A blockchain-based architecture for ethical, robust authenticated anonymity

Teaching Assistant Dec 2024 - Current
Software Engineering (6060)

Research Fellow September 2024 - February 2025
Upcoming article on IEE IOT Journal

Teaching Assistant Dec 2023 - Current

Algorithms and Data Structures (B4913)

Skills

I programm with:	Go, Java, Javascript, Python
I understand but I should write more:	Erlang, Haskell, Rust
Tools:	Git, Docker, Kubernetes
OS:	macOs, Linux (Ubuntu, Mint)
Other:	Hugo, LaTeX, Typst
Languages:	Italian (native), English (fluent), German, Spanish

(Some Of) My Latest Personal Projects

Aculei https://aculei.xyz aculei/

Go, Angular, System Administration, Python

Aculei is interactive photo archive that collects hunter cameras photo shoots and identify animals in them using zero-shot image classification. Images data such as exif metadata and information extracted using zero-shot are used to identify statistical patterns and discover peculiarities in animal behaviors.

Cam-Ino micheledinelli/cam-ino

C, Basics of electronics

Hunter camera using Arduino UNO R4 Minima, HC-SR04 ultrasonic sensor and a ESP32-CAM.

Wifind micheledinelli/wifind

Python, Machine Learning

Wifind is a cli tool that performs wifi fingerprinting and detect your position based on access points around you. It collects APs Wi-Fi signals strengths and uses a simple RandomForest classifier to predict the user's current position. It supports a "watch" mode to enable home automation.

We Bot Laughed micheledinelli/we-bot-laughed

Go, NoSQL

A Telegram bot that notifies me (and whoever subscribes) when the next One Piece chapter comes out.

Brackets micheledinelli/brackets

Hugo, SCSS

The Hugo theme that powers my personal website.

About Me

I love running, mangas and learning new stuff (nerdy and not). I worked 1 year after my bachelor's degree then I wanted to deepen my understanding and passion for computer science. In the last years I most enjoyed algorithms, emerging programming paradigms and cryptography. I also like types theory but I always have urge to put things in practice.
I like running and sports in general. I just completed (Sep 2025) my first half marathon in 1:29:00. In the next month I'll start swimming. In my free (free) time I play chess, guitar and I write code. I also wrote the LaTeXtemplate that renders this PDF.