



Lorenzo Molinari

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EDUCATION

• Master Double Degree in Informatics

Università della Svizzera Italiana, Lugano, Switzerland and Università degli studi di Milano-Bicocca, Milan, Italy 2024-2025

Thesis: Privacy Leakage of Counterfactual Explanations in Federated Learning, Supervisor: Prof. Marc Langheinrich, Co-Supervisor: Dario Fenoglio

• Bachelor of Technology in Security of Systems and Networks (Cybersecurity)

Università degli studi di Milano, Milan, Italy 2020-2023

Thesis: A Collaborative Editor For Text Annotation, Supervisor: Prof. Paolo Ceravolo

• High school, Technological sector, Information Systems and Telecommunications Specialization

ITIS Enea Mattei, Sondrio, Italy 2015-2020

PROFESSIONAL EXPERIENCE

• Teaching Assistant

Feb 2025 - July 2025

Università della Svizzera Italiana, Lugano, Switzerland

- Assisted the professor for ethics in computing course, Prof. Silvia Santini.
- Graded assignments and projects.
- Laboratory lectures and practical assignments.

• Network Manager

Dec 2021 - Dec 2024

Bormio FIS Ski World Cup, Bormio, Italy

- Managed and maintained critical network infrastructure for high-profile international sporting events.
- Deployed and configured temporary network equipment including wireless access points, switches, and broadcast systems for media coverage.

• Web Developer

Oct 2020 - Feb 2023

UnitBit, Bormio, Italy

- Developed and maintained responsive websites using HTML5, CSS3, JavaScript, and PHP.
- Implemented user interface mockups and structured user experiences across desktop and mobile platforms.

• FrontEnd Developer

Jul 2019 - Jul 2019

Ueppy, Bormio, Italy

High School Internship

- Gained foundational experience in web development technologies including HTML, CSS, and basic JavaScript.
- Assisted with website maintenance tasks and content updates for client projects.

CERTIFICATES

• Cyber Security Awareness Certificate

2025

Università della Svizzera Italiana

• Cybersecurity Essentials Certificate

2023

Cisco

• Penetration Testing, Incident Response and Forensics

2023

IBM

PROJECTS

- **Smart Angler** 2025
Android application designed to enhance the fishing experience. Course: Mobile and Wearable Computing, Prof. Silvia Santini
 - Developed native Android application with real-time image recognition capabilities
 - Implemented GPS-based location tracking and session management features
 - Technology Used: Android Studio, Java, Gemini, OpenStreetMap, Camera2 API

- **DLoan** 2025
Decentralized application for loan management, Course: Distributed Systems, Prof. Patrick Thomas Eugster
 - Designed and deployed smart contracts for decentralized finance applications
 - Built responsive web interface with real-time blockchain interaction capabilities
 - Technology Used: NodeJS, ReactJS, Solidity, Hardhat, Ethers.js, MetaMask

- **SmartTrainer UX/UI** 2025
UX/UI design project addressing challenges faced by professional athletes and trainers through a centralized mobile application, Course: User Experience and Design, Prof. Marc Langheinrich and Prof. Monica Landoni.
 - Conducted user research through questionnaires and semi-structured interviews
 - Created conceptual visual designs (storyboards and prototypes)
 - Conducted pilot testing with paper prototypes and external user surrogates

- **The K-anonymity, Samarati and Mondrian Algorithms** 2024
Comparative analysis of privacy-preserving data anonymization algorithms, Course: Data Architecture, Prof. Andrea Maurino
 - Implemented and optimized classical privacy-preserving algorithms for data anonymization
 - Conducted performance analysis comparing different k-anonymity approaches
 - Technology Used: Python, Pandas, Matplotlib, Mondrian algorithm, Samarati algorithm, Statistical analysis

- **Weather Valtellina** 2022
Android weather application for cities in Valtellina.
 - Developed location-aware Android application with GPS and weather API
 - Technology Used: Android Studio, Kotlin, Google Maps API, Google Location Services, Material Design, JSON parsing

TECHNICAL SKILLS AND INTERESTS

- **Programming Languages** Python, Java, Kotlin, C, JavaScript, HTML5/CSS3
- **Development Tools & Frameworks** Node.js, React.js, VS Code, Git, Hardhat
- **Cybersecurity & Network Technologies** Network Security, Information Security, Cryptography, Penetration Testing, Risk Assessment
- **Core Competencies** Data Structures & Algorithms, Distributed Systems, Machine Learning, Software Engineering, Operating Systems
- **Professional Skills** Problem-Solving, Technical Teaching, Group Collaboration, Research & Analysis

LANGUAGES

- **Italian** *Native*
Mother tongue
- **English** *Excellent*
C1/C2 Level, IELTS 7.5 overall
- **Deutsch** *Limited*
A1 Level

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