



# Enea MANZI

## Curriculum Vitae

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### 🎓 | Education

- 09/2024 - 10/2026 ○ **Master's Degree in Cyber Security, University of Milan, (Milan, IT)**  
**Thesis:** "Designed and implemented an API Security Assurance framework aligned with CIS Safeguards."  
**Supervisors:** Marco Anisetti, Claudio Agostino Ardagna  
**Expected Graduation: 10/2026**
- 09/2021 - 10/2024 ○ **Bachelor's Degree in System and Network Security, University of Milan, (Milan, IT)**  
**Thesis:** "Design and Implementation of a Framework for Evaluating Distributed System"  
**Supervisors:** Marco Anisetti, Filippo Berto  
**Final Grade: 110/110 cum laude**
- 09/2016 - 06/2021 ○ **High School Diploma in Computer Science, IIS Badoni, (Lecco, IT)**  
**Final Grade: 93/100**

### 👛 | Work Experience

- 03/2024 - 09/2024 ○ **Curricular Internship for Bachelor's Thesis, SESAR Lab, University of Milan, (Milan, IT)**  
*Secure Service-oriented Architectures Research Lab (SESAR Lab)*
  - Analyzed existing verification and monitoring solutions in distributed environments and contributed to the design and implementation of the Assurance Engine (a **Rust**-based assurance framework for distributed systems deployed on **Kubernetes**)
  - Extended the existing framework to enable integration with **Elasticsearch**, used as the backend for data collection and querying.
  - Developed and tested **formal** contracts, based on metrics, for the automated verification of **non-functional properties (NFP)** — including the **CIA triad, reliability, scalability, and performance** in distributed and microservices architectures.
  - Implemented **REST APIs** to expose the engine's functionalities.
- 01/2020 - 02/2020 ○ **WBL: web developer, DaTriK Solutions, (Casargo, IT)**  
*High school work-based-learning*
  - Work Based Learning (WBL): development of a web application.
  - Technologies used: **HTML, JavaScript, jQuery**

### 🌐 | Languages

Italian Mother tongue  
English Intermediate *Listening B2 - Reading B2 - Writing B2 - Spoken Production B2 - Spoken Interaction B2*

### ⚙️ | Skills

|                          |   |
|--------------------------|---|
| Programming Languages    | C, Java, Python, SQL, Web (HTML, JavaScript/Node.js), OOP Concepts, low-level programming |
| Database                 | MySQL, Database Design, Implementation and Administration                                 |
| Architectures & Software | Docker, Kubernetes, microservices architectures, REST API, Git, Kafka, Kong API Gateway   |
| Operating Systems        | Fresh OS installation, Linux Administration and Shell, Windows                            |
| Networking & Security    | Network Protocols, ICT Network Security Risk, Secure Coding Practices                     |
| Tools                    | Visual Studio Code, GitHub  |

### 🤝 | Soft Skills

Thinking analytically, critically, proactively  
Problems address problems critically, solve problems/create solutions

- Communication cooperate with colleagues, work in teams, manage teamwork  
Others demonstrate curiosity, cope with stress, prioritise tasks

## | Project

- FTP Client and Server** *Computer Networks Course Project (A.Y. 2022-2023)*  
Developed a multi-threaded **FTP-compliant** client-server application in **C** for file transfer, fully interoperable with **FileZilla**.
- Architecture: Multi-threaded server based on **Socket Programming** for concurrent session management.
  - Data Modes: Native support for both Active (PORT) and Passive (PASV) data transfer modes.
  - Protocol Management: Implemented essential *FTP commands* (e.g., USER, PASS, LIST, RETR, STOR, CWD...)
  - **Key skills:** **C**, **socket programming**, **multithreading**, **network protocols**, **FTP**, **Git**.
- Exhibition Web App** *Web and Mobile Programming Course Project (A.Y. 2021-2022)*  
Built a dynamic web application serving as a digital portfolio for displaying multimedia content.
- Developed the backend with *Node.js/Express* and the frontend with *HTML5*, *CSS3*, *JavaScript/jQuery*.
  - Integrated *MongoDB* for document-oriented storage and *AJAX* for asynchronous client-server communication (GET, POST, DELETE).
  - Managed source code and collaboration using **Git** and **GitHub**.
  - **Key skills:** *Node.js*, *Express*, *MongoDB*, *AJAX*, *REST APIs*, *jQuery*, **Git**.

*Bellano, December 23, 2025*

*Enea Manzi*