Enea MANZI
Curriculum Vitae

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🎓 | Education

09/2024 - 10/2026 — **Master's Degree in Cyber Security**, *Università degli studi di Milano*, (Milan, IT), *TODO vote*
Description

09/2021 - 10/2024 — **Bachelor's Degree in System and Network Security**, *Università degli studi di Milano*, (Milan, IT), *110/110 cum laudae*
Thesis: "Design and Implementation of a Framework for Evaluating Distributed System"
Supervisors: Marco Anisetti, Filippo Berto

09/2016 - 06/2021 — **High School Diploma in Computer Science**, *IIS Badoni*, (Lecco, IT), *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 Programming (*HTML*, *JavaScript/Node.js*), OOP Concepts, low-level programming
Database	*MySQL*, Database Design, Implementation and Adminsitration
Architectures & Software	*Docker*, *Kubernetes*, microservices architectures, REST API, version control system (*Git*), Kafka, Kong API Gateway
Operating Systems	Fresh OS installation, Linux Adminsitration 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**.

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Company Recruitment team   January 01, 1984
Company, Inc.
123 somestreet
some city

Job application

Dear Sir or Madam,

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis ullamcorper neque sit amet lectus facilisis sed luctus nisl iaculis. Vivamus at neque arcu, sed tempor quam. Curabitur pharetra tincidunt tincidunt. Morbi volutpat feugiat mauris, quis tempor neque vehicula volutpat. Duis tristique justo vel massa fermentum accumsan. Mauris ante elit, feugiat vestibulum tempor eget, eleifend ac ipsum. Donec scelerisque lobortis ipsum eu vestibulum. Pellentesque vel massa at felis accumsan rhoncus.

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Albert Einstein discovered that $e = mc^2$ in 1905.

$$e = \lim_{n \to \infty} \left(1 + \frac{1}{n}\right)^n$$

Yours faithfully,

Enea Manzi