

# Federico Sabbadini



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Italia, Cologne

## SKILLS

Problem-solving  
Experienced

Creativity  
Skillful

Learning Attitude  
Expert

Adaptability  
Skillful

Teamwork  
Skillful

Communication  
Experienced

Leadership  
Beginner

Time Management  
Expert

## LANGUAGES

- Italian (native)
- English (B1 QCER)

## LINKS

- federicosabbadini
- FedericoSabbadini
- federicosabbadini
- SabbadiniFederico

## PERSONAL INFO

- Date of birth: 4 January 2002
- Driving licence: B

## PROFESSIONAL SUMMARY

I am a determined and curious person who approaches every challenge with full dedication and commitment, believing that consistency and passion are the keys to achieving tangible, high-quality results.

I have a strong passion for cybersecurity and systems administration, seeking my first internship in the upcoming semester to apply my skills and gain practical experience in a challenging environment.

## EDUCATION

### Scientific High School

San Bernardino Salesian Institute, Chiari

### Bachelor's Degree in Computer Engineering

University of Studies, Brescia

September 2021 - October 2024

### Master's Degree in Computer Engineering

University of Studies, Brescia

September 2024 - Now

## CERTIFICATIONS

### EC-Council Wireshark Troubleshooting

Hands-on with PCAP analysis, capture filters, protocol dissection, encrypted protocol analysis/description, Path MTU, ARP poisoning/MITM detection and more.

### Certified Cybersecurity Technician (CCT)

Conducted hands-on labs covering malware handling (Trojans, RATs, worms), network attacks (MITM, DoS, SQLi, WPA2 cracking), and system auditing. Deployed and configured firewalls, IDS/IPS (Suricata, Wazuh, Splunk), performed OpenVAS vulnerability scans, and applied threat intelligence and forensic analysis tools.

### EC-Council Metasploit Fundamentals

Hands-on with Metasploit Framework, Meterpreter, MSFvenom, Nmap, privilege escalation, persistence, and lateral movement, including reconnaissance, exploitation and payload delivery.

## RELEVANT COURSES

### Software Development & Engineering

Proficient in C, Java, Python, Haskell, Scheme, and Prolog, with experience in software design (UML, patterns, testing) and web development (HTML, CSS, JS, PHP). Strong foundation in algorithms, data structures, and computational complexity.

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### Networks & Cybersecurity

Hands-on experience with network protocols and secure communications (TCP/IP, VPN, routing, GNS3). Proficient in applied cryptography (AES, RSA, DH, hashing, PKI), secure protocols (IPSec, TLS/SSL, SSH), and network defense mechanisms (firewalls, authentication, steganography). Familiar with telecom regulations and standards.

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### Systems Administration

Strong background in system architecture and OS internals (processes, memory, scheduling, file systems). Hands-on experience managing Linux, Windows, and macOS environments, deploying and securing network services (BIND, Kerberos, Apache, AD), and working with virtualization, cloud, and high-availability systems. Developed small-scale projects on Raspberry Pi for automation and monitoring.

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### Artificial Intelligence & Machine Learning

Knowledge of supervised/unsupervised learning, NLP, and deep learning (Transformers, BERT, GPT, Autoencoders, GANs, GNNs). Practical experience developing AI models using Python, PyTorch, TensorFlow, and Keras.

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### Databases & Information Systems

Solid foundation in SQL/NoSQL databases, data modeling, and distributed processing (Hadoop, Spark). Familiar with modern data architectures (Data Lakes, Lakehouse, Mesh) and enterprise systems (ERP, CRM, BI, OLTP/OLAP). Exposure to MES and Industry 4.0 systems.

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## RECENT PROJECTS

### OpenID Connect & Digital Identity

Analyzed AUTHN/AUTHZ in OpenID Connect + OAuth 2.0, focusing on security, token management, and enterprise integration.

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### Work Performance Trading

Built a Java app for automated resource exchange with GUI, modular architecture, and optimization tools.

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### Classification on Dataset

Developed a supervised ML pipeline in Python (pandas, scikit-learn) using ensemble models, feature engineering, and hyperparameter tuning.

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### Website Development

Created a Laravel/PHP site for community sports predictions using MySQL, JS, Bootstrap, APIs, and Agile workflow.