



Pietro Walter Soriano

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EDUCATION AND TRAINING

Master's Degree in Computer Science: Security Engineering (LM-18)

Università Degli Studi di Bari [01/10/2022 – 20/12/2024]

Address: Via E. Orabona, 4, 70125 Bari (Italy) | **Website:** <https://www.uniba.it/it/corsi/cdl-computer-science/corso/scheda-del-corso> | **Field(s) of study:** Information and Communication Technologies ; Cybersecurity | **Final grade:** 103/110 | **Level in EQF:** EQF level 7 | **Thesis:** (Project Management for Security) REVEALING COMMUNITY SMELLS: SOCIO-TECHNICAL CHALLENGES AND STRATEGIES IN SOFTWARE ENGINEERING

- Cybersecurity (threat/vulnerability analysis and intelligence, risk assessment techniques, data protection, network security)
- Secure software engineering (threat modeling, secure design, risk management)
- Project management for security
- Artificial Intelligence (Machine Learning, Deep Learning, NLP) with applications in anomaly detection
- Business intelligence and data analytics
- Object-oriented database systems
- Cloud security and DevSecOps
- Microservices architecture and containerization

NOTE: The 'Computer Science: Security Engineering' course was taught entirely in English.

Bachelor's Degree in Computer Science (L-31)

Università Degli Studi di Bari [23/09/2019 – 12/10/2022]

Address: Via E. Orabona, 4, 70125 Bari (Italy) | **Website:** <https://www.uniba.it/it/corsi/informatica/corso/scheda-del-corso> | **Field(s) of study:** Information and Communication Technologies | **Level in EQF:** EQF level 6 | **Thesis:** Realization of a Platform Terminal Transmitter for communication by satellite

- Agile development, including continuous integration/continuous delivery (CI/CD) pipelines and DevOps best practices
- Algorithmic logic
- Programming in Java, C, C#, C++, Python
- Relational database system
- Data processing and analysis
- Software engineering
- Problem solving

High school Diploma

Technical Technological Institute "G. Ferraris" [17/09/2014 – 05/07/2019]

Address: Via Palmiro Togliatti, 70056 Molfetta (Italy) | **Website:** <https://www.vienialferraris.it/itt> | **Field(s) of study:** Information and Communication Technologies

Certifications: IT Essential, CCNA Routing and Switching, Introduction to Cybersecurity

Cisco Networking Academy [10/12/2017 – 01/02/2019]

Website: https://www.cisco.com/c/it_it/training-events/networking-academy.html | **Field(s) of study:** Information and Communication Technologies

This course allowed me to learn the basics of computing from a well-known organisation such as CISCO. The course and examinations were delivered in English and were an excellent opportunity.

ECDL Base, ECDL Advanced, IT-Security

AICA [2017 – 2018]

Website: <https://www.aicanet.it>

WORK EXPERIENCE

Database Administrator for CER

Efficientare s.r.l. [01/06/2023 – 31/01/2025]

City: Molfetta | Country: Italy | Website: <https://www.efficientare.net>

I served as the DBA for the CER (energy communities) database, responsible for managing data collection and visualization on the LIBRA-CE platform; I also, subsequently, served as the co-manager of the platform, carrying out the following activities: overseeing daily operations, performance optimization, and customer data management. Marginal activities: I researched and analyzed the use of ai in order to help the implementation of photovoltaic systems with *expert.eternity.io* platform, currently regularly used in the design phase.

AI Trainer and Trainer Task Evaluator (Freelance)

Outlier.ai [25/09/2024 – 18/03/2025]

Website: www.outlier.ai

From 25/09/2024: trainer of artificial intelligence models applied to the following areas: mathematics, logic, programming.

From 16/12/2024: trainer task evaluator.

Projects I worked on: Kepler_rlhf (models trainer); Cypher_rlhf (models trainer); Rhind_evals (trainers task evaluator); Cypher_evals (trainer task evaluator).

PROJECTS

[09/2023 – 02/2024]

Analysis and penetration testing

Leveraging the Mobile Application Security Verification Standard (MASVS) to verify any security requirements.

Tools: Android Tamer, VirtualBox, GenyMotion, Android Debug Bridge, Enjarify, JD-GUI, Mara Framework (Mobile Application Reverse engineering and Analysis Framework), ImmuniWeb, MobSF (Mobile Security Framework).

Vulnerabilities researched and proposed mitigations.

[09/2023 – 01/2024]

Malware detection, classification and data visualization

Creation of a system for classification of malware (Trojans, Spyware, Ransomware)

Data analysis with application of the KDD process (Boxplot analysis, Underfitting)

Choice of algorithms and their implementations in Python and results obtained (K-NN, Random Forest and LSTM)

Data visualization (Graphana)

[09/2023 – 01/2024]

Red Team & Blue Team in a corporate context

Attack: SQL Injection exploiting the Cyber Kill Chain: Lockheed Martin and Spear Phishing.

Defense: DB encryption proposal and training courses on phishing, CVSS.

[09/2023 – 02/2024]

"Project Management for Security" simulation

Simulation of the management of a software engineering company in a security context, focusing on: advanced coordination, risk assessment, and security governance during the project life cycle.

Methodologies: applied industry-standard frameworks as PMBOK, PRINCE2 and Agile methodologies (Scrum & Kanban).

Tools: PowerBI, Microsoft Project (including generation of Gantt charts for project scheduling), Excel, risk management matrices.

[03/2023 – 06/2023]

Risk assessment in a business setting

Definition of Information, Assets, and Threats.

Necessary security controls and ideal security controls; correlation of vulnerabilities to threats; quantitative, qualitative and normalization risk assessment.

[03/2023 – 06/2023]

Shoplifting, robbery and vandalism for anomaly detection

Classification of videos in a real-time and non-real-time manner on the following categories: theft, robbery, and vandalism.

Exploitation of a ResNet50: pre-processing, testing, and analysis of results.

[03/2023 – 07/2023]

License plate detector in a city limited traffic zone setting

Design and implementation of “Plate recognizer” software.

Technologies: YOLOv5, custom Roboflow dataset.

Functionality: detects vehicles entering restricted zones, captures license plate images, performs OCR/translation, and stores the results in a database.

HOBBIES AND INTERESTS

11-a-side football referee - A.I.A.

I currently play in the ‘Eccellenza Puglia’ category and belong to the C.R.A. Puglia.

LANGUAGE SKILLS

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

MANAGEMENT AND LEADERSHIP SKILLS

Personal insights

During my academic years, I found a strong interest in the world of management. This allowed me to get very close to the study of how to improve leadership and project organisation skills, paying attention from Napoleon's methods to Roberto Re's advice.

I authorize the processing of my personal data in the CV in accordance with art. 13 d. lgs. 30 June 2003 n. 196 - “Code for the protection of personal data” and art. 13 GDPR 679/16 - “European Regulation on the protection of personal data”.

Paolo Nello Sorrento