

Marco Cola

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EDUCATION

University of Padua

Bachelor of Science in Computer Science

September 2022 - December 2025

- **Relevant Modules:** Software Engineering, Databases, Data Structures and Algorithms, Operating Systems, OOP, Computer Networks, Cybersecurity, Web Technologies.

WORK EXPERIENCE

Kirey Group, Padua (Italy)

AI & DevOps Engineer – Intern

September 2025 - November 2025

- Engineered a log analytics platform using the Elastic Stack (Elasticsearch, Logstash, Kibana, APM) to monitor 20,000+ daily web requests as part of the APM team; cutting diagnostic time by 45%.
- Automated data ingestion and anomaly detection with Python scripts and Elastic Machine Learning jobs; improved monitoring efficiency by 60% and enabled proactive alerting on performance degradations.
- Created comprehensive documentation and scalability tests; reduced debugging cycles by 30% and improved maintainability and onboarding efficiency for a three-person team.

EY, Milan (Italy)

Cybersecurity Consultant – Intern

March 2025 - September 2025

- Automated DORA/TPRM compliance using advanced Excel-based reporting tools; reduced reporting time by 35% and standardized deliverables across 3+ teams.
- Collaborated with senior consultants to automate evidence tracking and optimize audit workflows; improved response time by 20% and enhanced consistency of compliance documentation across business units.
- Evaluated 10+ vendors for cybersecurity resilience through technical questionnaires and evidence reviews; ensured alignment with European regulatory frameworks and internal risk management standards.

PROJECT WORK

• Artificial QI - Zucchetti Software Partnership: ([Project Documentation](#))

- Led a 7-member team to develop a Python-based web application with Streamlit for automated evaluation of expected vs. received AI model responses, reducing testing and reporting time by 40%.
- Delivered a production-ready MVP to Zucchetti Software and implemented CI/CD workflows to automate testing and deployment for benchmarking 30+ machine learning models.

• Sensor Simulation Application: ([GitHub Repository](#))

Engineered a C++/Qt app simulating 3 sensor types with CRUD and interactive visualization.

• Bank Database System: ([GitHub Repository](#))

Designed and implemented a PostgreSQL database (20+ tables, 500+ records) accessed via C and libpq, ensuring full ACID compliance and secure transactions under concurrent access.

• Integer to Roman Numerals Converter: ([GitHub Repository](#))

Built a Java app with 100% unit test coverage using JaCoCo and GitHub Actions.

AWARDS AND CERTIFICATES

- **Blockchain - Understanding Its Uses and Implications (LFS170):** Completed the course on blockchain, covering key concepts and impact on finance, supply chain, and digital identity.
- **Cybersecurity Essentials (LFC108):** Completed the course, covering fundamental principles of cybersecurity, including threat analysis, network security, cryptography, and risk management.

SKILLS AND INTERESTS

- **Languages:** Italian, English (fluent).
- **Technical Skills:** Python, C++, C, Java, JavaScript, SQL, Solidity, PHP.
- **Frameworks & Tools:** Git, Qt, Streamlit, PostgreSQL, CI/CD (GitHub Actions), Elastic Stack (Elasticsearch, Logstash, Kibana, Beats, Elastic APM).
- **Interests:** Cycling, Finance, CTFs.