

Serena Cofano

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ABOUT MYSELF

Software Engineer and PhD in **Cybersecurity** | research in software security with a focus on **Software supply chain** and **SBOM** | **software development** experience in industry and academia.

SKILLS

Android | Coding JavaScript | Coding HTML | Coding CSS | Coding Java | Coding Python | angularJS | Angular 11 | Software Engineering | Software development | C# | understand spoken English | interact verbally in English | SQL | Git | Bash scripting | OWASP Top 10 | CRA | ISO 27001 | GDPR

WORK EXPERIENCE

IMT School for Advanced Studies - Italy, Lucca

PhD Researcher in Cybersecurity

[01/12/2022 - 30/11/2025]

- Conducted **research on software supply chain security**, regulatory **compliance**, and **risk management**, **vulnerability assessment** with emphasis on **Software Bill of Materials (SBOMs)**.
- Awareness of **GDPR**, **NIS2**, **CRA**, **OWASP Top 10**, **ISO 27001**.
- Programmed in **Java** and **Python**, used Java Agents and code instrumentation techniques.
- Analyzed **open-source** software projects.
- Collaborated using **GitHub**. **Team working** in **international** environment.
- Published **3 scientific papers** in international, peer-reviewed conferences.

KTH Royal Institute of Technology - Sweden, Stockholm

Visiting PhD Student

[31/10/2024 - 30/06/2025]

- **Designed and implemented** a Java-based prototype to identify software dependencies at runtime.
- Contributed to software development activities in **Java** and **Maven** within an international research team.
- Strengthened skills in **debugging** and collaborative development (**Git**).
- Assisted in planning and **organizing a workshop**.

University of Genoa - Italy, Genoa

University teaching assistant

[31/10/2023 - 29/02/2024]

- Prepared and **supervised** exercise and exam sessions.
- Presented **lectures** on **computer security classes**.

CINI - Consorzio Interuniversitario Nazionale per l'Informatica - Italy, Genoa

Cybersecurity Consultant

[09/2023 - 11/2023]

- Contributed to the **IT-Alert project**, the national public alerting system in Italy.
- Analyzed **security requirements** and identified risks for the system.
- Designed a **Security-by-Design pipeline** to support secure software development.
- Developed **training materials** to guide developers in adopting the security pipeline.
- Delivered a **presentation** and a **training** session to the development team.

University of Genoa - Italy, Genoa

Research Scholarship

[31/07/2022 - 30/11/2022]

- Worked with **Android** Virtualization, **Java**, **Gradle**, and ART Instrumentation.
- Used instrumentation techniques to analyze and improve privacy with data anonymization processes.

Talos srl - Italy, Genoa

Website: <https://talos-sec.com/>

Internship

[03/2021 - 12/2021]

- Implemented a web front-end for data visualization.
- Used Angular, TypeScript, and MongoDB.

Aizoon Consulting - Italy, Genoa

Junior Software Developer

[05/2021 - 05/2022]

- Developed and maintained front-end and back-end components for enterprise applications.
- Worked extensively with C#, JavaScript, HTML, and CSS.
- Usage of AngularJS and Angular2+.
- Participated in bug fixing, software maintenance, and feature implementation.
- Interacted directly with clients and collaborated in an agile team environment.

EDUCATION & TRAINING

PhD Researcher in Cybersecurity

School for Advanced Studies Lucca [01/12/2022 - 30/11/2025]

City: Lucca | Country: Italy

Website: www.imtlucca.it

- Enhanced technical report and scientific writing for publications and project documentation.
- Experienced projects and results presentation to big audience such as international conferences.
- Developed critical thinking and analytical problem-solving skills.
- Gained project management and strong communication abilities.
- Deepened cybersecurity expertise and security awareness.
- Built resilience under stress and ability to meet tight deadlines

Summer School on Artificial Intelligence and Cybersecurity

TU Wien [22/09/2025 - 26/09/2025]

City: Vienna | Country: Austria

- AI and LLM Research Trends
- Adversarial Machine Learning

Master's Degree in Computer Engineering

University of Genoa [31/08/2020 - 30/09/2022]

City: Genoa | Country: Italy

Bachelor's Degree in Biomedical Engineering

University of Genoa [31/08/2016 - 30/09/2019]

City: Genoa | Country: Italy

LANGUAGE SKILLS

Mother tongue(s): Italian

English

LISTENING: C1 **READING:** C1 **WRITING:** C1

SPOKEN PRODUCTION: C1

SPOKEN INTERACTION: C1

French

LISTENING: B1 **READING:** B1 **WRITING:** A2

SPOKEN PRODUCTION: B1

SPOKEN INTERACTION: B1

German

LISTENING: A2 **READING:** A2 **WRITING:** A1

SPOKEN PRODUCTION: A2

SPOKEN INTERACTION: A2

Spanish

LISTENING: A2 **READING:** A2 **WRITING:** A1

SPOKEN PRODUCTION: A2

SPOKEN INTERACTION: A2