

SERENA COFANO

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EXPERIENCE

Ph.D. Student

IMT Lucca

📅 December 2022 – Ongoing

📍 Genoa, Italy

During my Ph.D. I am focusing on various cybersecurity topics. In particular, my interests lay in DevSecOps methodologies, Software Supply Chain security, and the security of containerization.

Research Scholarship

DIBRIS - University of Genoa, Genoa

📅 August 2022 – January 2023

📍 Genoa, Italy

Scholarship title: "New algorithms for the anonymization of personal data in mobile applications on the Android platform"

Acquired skills

- Android Virtualization
 - ART Instrumentation
 - Anonymization techniques
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Junior Software Developer

Aizoon Consulting, Genoa

📅 May 2021 – May 2022

📍 Genoa, Italy

Work as software developer on several core development projects.

Acquired skills

- Programming skills consolidation
- Teamwork
- Interaction with stakeholders

Main Projects

- Mobile application development - frontend development of a mobile application in javascript and html, customer management.
 - Development of a bicycle braking system testing application - Management of data packet exchange between PLC and the application - the main programming language was C#
 - Siemens MES (Manufacturing Execution System) customization depending on the type of company that requires it - the main programming language was C#
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Internship

Talos, Genoa

📅 March 2020 – November 2020

📍 Genoa, Italy

Internship during the Software Engineering course, performed in the first year of the master's degree in computer engineering. Talos is a cybersecurity SME recognized as a Spin-Off of the University of Genoa.

Acquired Skills

- Angular
- Writing specification documents

- Interacting with customers
 - Fulfilling customers' requirements
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EDUCATION

National Ph.D. in Cybersecurity

IMT Lucca

📅 December 2022 - Ongoing

I am currently attending the National Ph.D. in cybersecurity, Curriculum in Software, System, and Infrastructure Security. I conduct my activities in the Computer Security Laboratory at DIBRIS.

M.Sc. in Computer Engineering

Unige, University Of Genoa

📅 October 2020 - October 2022

Curriculum "Software Platforms and Cyber Security"

- **Thesis title:** VirtualHideDroid - User data anonymization through virtualization techniques;
 - **Thesis description:** research thesis on data privacy in the android environment, which aims to present a methodology that can anonymize the content of requests to Google Firebase Analytics services, directly from the user's device through android virtualization.
 - The thesis will be discussed on the October 21st, 2022.
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B.Sc. in Biomedical Engineering

Unige, University Of Genoa

📅 September 2016 - September 2019

- **Thesis title:** Study of the neural correlates of taste;
 - **Thesis description:** Research project aimed at studying brain response to gustatory stimuli by electroencephalogram.
 - Final degree mark: 102/110
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PROJECTS

VirtualHideDroid

User data anonymization through virtualization techniques, DIBRIS

📅 August 2022 - January 2023

- **Description:** A project aimed to intercept and anonymize the flow of data between mobile applications and analytics services, leveraging mobile virtualization technologies and state-of-the-art data anonymization techniques.
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ACCREDIA

Cybersecurity National lab - CINI (National Interuniversity Consortium for Informatics), Rome

📅 July 2022 - August 2022

- **Description:** data analysis of the results of a vulnerability assessment campaign of publicly exposed web services belonging to Italian companies with ISO 27001 or ISO 9001 certification.

Talos project

Talos, Genova

📅 March 2020 – November 2020

- **Description:** design and development of a web dashboard of a tool for the security assessment of mobile applications.
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High availability docker-based multi-tier application

Unige, University of Genoa

📅 February 2020 – March 2020

- Project for Virtualization & Cloud Computing course;
 - **Description:** the project consisted of implementing a multi-tier application deployed in a Docker Swarm. This had to be automatically installed and configured, with a proper segregation between front end and back end services. It had to support high-availability, load balancing and horizontal scaling.
 - **Technologies:** docker, docker-swarm, docker-compose, PostgreSQL;
 - **Grade:** 30/30.
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DEVELOPMENT SKILLS

- Main Development Languages

JAVA C# Python C C++ javascript MATLAB

- Development – WEB

Javascript Typescript HTML / CSS NodeJS

- Development Tools – IDE

VS Code VisualStudio PyCharm Eclipse AndroidStudio

- Development Tools – Deploy

Docker Docker Swarm

- Development Tools – DB

PostgreSQL MySQL MariaDB

- Development

Android Programming

- Binary Analysis

Frida Ghidra

LANGUAGES

Italian



English



German



French



SOFT SKILLS

- Organization Skills
 - Good organizational skills acquired during the work period, related to time and workload management.
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- Communication and Interpersonal Skills
 - Customer relationship skills and teamwork skills acquired during the work period.
 - Oral expository skills acquired during university studies

PRIVACY STATEMENT

I hereby give consent for my personal data included in the application to be processed for the purposes of the evaluation process in accordance with Art. 6 paragraph 1 letter a of the Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).

Genoa, 15/10/2023