

Antonio Pelusi

Ph.D. researcher

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Skills

Back-end	C, C++, Java, Kotlin, Python • Django, Jekyll, Android SDK, RayLib • SQL, NoSQL (MongoDB, Neo4j)
Front-end	HTML, CSS, JavaScript • ImGui, JavaFX, Semantic UI, Bootstrap
Libraries	OpenMP, CUDA, Socket, Pandas, Numpy, Matplotlib, Seaborn, SKLearn, NLTK, Asyncio
Tools	Linux, Git, Docker, Make, Gradle, Maven
Certificates	MasterZ Blockchain Training Program, De-Cifris Trends in Modern Cryptography
Languages	Italian, English

Education

Ph.D. in Computer Science and Mathematics of Computation

nov. 2024 → Ongoing

University of Insubria • Random Power

- Investigating privacy preservation techniques, including Differential Privacy, to enhance data security and user anonymity.
- Analyzing the impact of randomness on privacy-preserving methodologies to optimize data protection strategies.

Master's Degree in Computer Science

sep. 2022 → apr. 2024

University of Modena and Reggio Emilia

110/110

- Big Data & Machine Learning: Analyzed large datasets and implemented algorithms for data-driven insights.
- Cybersecurity & Cryptography: Studied cybersecurity principles and cryptographic techniques for data protection.

Post Graduate Degree CBI.Attract

feb. 2023 → jun. 2023

University of Bologna • CERN • AGH University

30L/30

- Identified tech opportunities, applied Design Thinking, prototyped, and tested.
- Research visits at CERN and AGH University.

Bachelor's Degree in Computer Science

sep. 2018 → apr. 2022

University of Modena and Reggio Emilia

- Foundational Knowledge: Covered algorithms, data structures, programming languages, computer architecture, and OS.
- Mathematical Foundations: Included discrete mathematics, calculus, statistics, and linear algebra.

Work and research experience

Random Power (startup)

may 2024 → Ongoing

Software Developer

Como, Italy

- Involved from day one in the development of Random Power's bit generation client/server platform.

A. Paradisi High School

sep. 2024 → jul. 2024

High School teacher

Vignola, Italy

- Guided students in computational thinking.

University of Modena and Reggio Emilia

sep. 2024 → dec. 2024

University tutor

Modena, Italy

- Helped mathematics students understand programming concepts.

Liferay Inc.

may 2021 → jul. 2021

Junior Software Developer

Remote

- Integrated the Stripe payment method into the Open Source Liferay Portal.

Publications

Privacy Preservation in Data Sharing: A Study on Differential Privacy

Apr. 2024

University of Modena and Reggio Emilia

Master's thesis

- <https://doi.org/10.6084/m9.figshare.26411314>

Awards

Green & Digital Transformation two-day Hackathon

sep. 2023

University of Modena and Reggio Emilia

Mantua, Italy

- Winner of the hackathon with a machine learning-based model for predicting and optimizing water consumption.