

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
Languages	Italian, English

Education

Ph.D. in Computer Science and Mathematics of Computation	nov. 2024 → Ongoing
UNIVERSITY OF INSUBRIA • RANDOM POWER	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">Identified tech opportunities, applied Design Thinking, prototyped, and tested.	
Bachelor's Degree in Computer Science	sep. 2018 → apr. 2022
UNIVERSITY OF MODENA AND REGGIO EMILIA	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">Guided students in computational thinking.	
University of Modena and Reggio Emilia	sep. 2024 → dec. 2024
UNIVERSITY TUTOR	
Modena, Italy	
<ul style="list-style-type: none">Helped mathematics students understand programming concepts.	
Liferay Inc.	may 2021 → jul. 2021
JUNIOR SOFTWARE DEVELOPER	
Remote	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">Winner of the hackathon with a machine learning-based model for predicting and optimizing water consumption.	