Antonio Pelusi

Ph.D. researcher

🛛 +39 3284261797 | 💟 antoniopelusi2000@gmail.com | 🏘 www.antoniopelusi.com | 🖸 antoniopelusi | 🖬 antoniopelusi 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 Investigated privacy preservation techniques, including Differential Privacy, to enhance data security and user anonymity. Analyzed the impact of randomness on privacy-preserving methodologies to optimize data protection strategies. Master's Degree in Computer Science sep. $2022 \rightarrow apr. 2024$ University of Modena and Reggio Emilia 110/110 Big Data & Machine Learning: Developed predictive models and analyzed large volumes of data, focusing on machine learning techniques. 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. **Experience Random Power (startup)** may 2024 \rightarrow **Ongoing** Software Developer Como, Italy • Involved from day one in the definition and development of Random Power's bit generation client/server platform: - Authored code in Python, JavaScript, HTML and CSS for the client Django web application. Collaborated on the development of the scheduler, the controller, and the Trusted Execution Environment in C. Defined and managed the communication interfaces among the system components. A. Paradisi High School sep. $2024 \rightarrow jul. 2024$ Computer Science High School Teacher Vignola, Italy University of Modena and Reggio Emilia sep. 2024 → dec. 2024 Computer Science University Tutor Modena, Italy Liferay Inc. may 2021 → jul. 2021 Software Developer Remote • Integrated the Stripe payment method into the Liferay Open Source Portal. Publications. Privacy Preservation in Data Sharing: A Study on Differential Privacy Apr. 2024 https://doi.org/10.6084/m9.figshare.26411314 Master's thesis

Awards_

Green & Digital Transformation two-day Hackathon

University of Modena and Reggio Emilia

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

sep. 2023 Mantua, Italy