Cristian Di Iorio

Email: cristiandiiorio12@gmail.com   **Website:** cristiandiiorio.it   **Website:** github.com/cristiandiiorio

Nationality: Italian

EDUCATION AND TRAINING

[17/09/2024 – Current]   **Master's Degree in Computer Science**

Sapienza Università di Roma

City: Rome | **Country:** Italy | | **Level in EQF:** EQF level 7

[27/09/2021 – 19/12/2024]   **Bachelor's Degree in Computer Engineering**

Sapienza Università di Roma

City: Rome | **Country:** Italy | | **Level in EQF:** EQF level 6

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

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

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

Automated Detection of Security-Sensitive UI Elements

Designed a three-stage pipeline to automatically identify and tag security-sensitive UI widgets for Clickshield. Proposed using UI-CTX for static code analysis to construct UI Handler Graphs, applying a Graph Neural Network for binary classification at the graph level, and defining automatic code-level annotations to guide runtime overlay protection.

Link: https://cristiandiiorio.it/assets/pdf/dns-report.pdf

Keystroke Dynamics Recognition

Implemented user authentication through keystroke dynamics using Mahalanobis Distance, Gaussian Mixture Model, and the Gunetti-Picardi method. Developed and optimized models for pattern analysis and anomaly detection.

Link: https://arxiv.org/pdf/2502.16177

Arduino Current Meter - Bachelor's Thesis

Developed a C interrupt-driven program to interface with a Dockerized receiver, enabling real-time data acquisition from a Hall-effect current sensor connected to an Arduino board.

Link: https://cristiandiiorio.it/assets/pdf/bachelor-thesis.pdf

Google Drive clone

Designed and implemented a Google Drive clone using Ruby on Rails, featuring file storage, sharing capabilities, and user authentication using Google OAuth.

HOBBIES AND INTERESTS

Homelabbing and Selfhosting