Cristian Di Iorio

✉ cristiandiiorio12@gmail.com   📞 +39 3669064100   🔗 cristiandiiorio.it   **in** LinkedIn   GitHub

Education

MS	**Sapienza University of Rome**, Master's Degree in Computer Science	Sept 2024 – Present

- Average: 27.8/30
- **Coursework:** Cybersecurity, Data Science, Computer Systems (in English)

BS	**Sapienza University of Rome**, Bachelor's Degree in Computer Engineering	Sept 2021 – Dec 2024

- Thesis: Current Monitoring System with Arduino and Hall Effect Sensor ↗
- **Coursework:** Engineering, Computer Science (in Italian)

Projects

AWS Blog App Deployment and Testing   report ↗

- Designed and deployed a scalable, fault-tolerant, three-tier blog platform on AWS. Tested the platform with JMeter.
- Tools used: AWS, JMeter, Python, Flask, HTML, JS, CSS

Automated Detection of Security-Sensitive UI Elements   report ↗

- Designed a three-stage pipeline using UI-CTX and Graph Neural Networks to automatically identify and tag security-sensitive UI widgets for Clickshield.

Keystroke Dynamics Recognition   report ↗

- Created a comparative study of three statistical keystroke-dynamics authentication models: Gaussian Mixture Models, Mahalanobis-distance classification, and GunettiPicardi distance metrics. Evaluated their performance with FAR, FRR, EER and visualized the results via ROC curves.
- Tools used: Python

Arduino Current Meter - Bachelor's Thesis   thesis ↗

- Developed a current monitoring system by integrating an Arduino ATMega2560 with a Hall effect sensor. Implemented a containerized receiver and a simple web interface with Docker.
- Tools used: C, Docker, Makefile

Technical skills

Languages: Python, C, Bash, HTML/JS/CSS, Flask

Data Management: SQL, PostgreSQL

Platforms: Git, Linux, Docker, OPNSense, AWS

Support Tools: JMeter, Makefile, IDA disassembler

Open Source Contributions

glance-community-widgets ↗: Implemented and published two widgets that interface with external APIs.

Languages

Italian: Native

English: Cambridge C2