Cristian Di Iorio

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Education

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

- Average: 27.1/30
- **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