

GIACOMO MALDARELLA

Cybersecurity Engineer

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🔗 isnotJack

🌐 giacomo-maldarella

📍 Pisa

EDUCATION

B.S. in Computer Engineering

University of Pisa

📅 Enthusiast of **Capture The Flag** challenges and participant in various cybersecurity competitions.

📅 Sept 2020 - Sept 2023

- **University Projects:** isnotJack/B.Sc._University

M.S. in Cybersecurity - GPA: 3.765 - B2 level

University of Pisa

📅 Enthusiast of **Blockchain** smart contract and security vulnerabilities.

📅 Sept 2023 - ongoing

- **Main courses so far:**
IT Law: GDPR, AI act, NIS, NIS2, ENISA, CSIRT, CERT-EU
SYSTEM Security: bizantine problem, bitcoin/ethereum, proof of stake/work

SIDE PROJECTS

Ethereum Blockchain Smart CONTRACTS (ERC20)

Project

🔗 Solidity Javascript Hardhat Node.js Etherscan Metamask Remix.eth Rinkeby

🔗 isnotJack/SmartContractToken

- Creation of "notJToken (NJT)", an ERC20 token with functionality of **Minting**, a **Capped supply**, **Burnable** functionality, and a **Block Reward** system. This project leverages OpenZeppelin's contracts to implement secure and efficient token functionality.
- Tested with Web3 testing
- Developed secure smart contracts by addressing and mitigating common vulnerabilities such as **access control issues**, **buffer overflows**, **reentrancy attacks**, and more. Ensured best practices in security and performing comprehensive security audits.

LLM-AI-driven Vulnerability Management System - Team Project

Antivirus for CVEs

🔗 Ollama LangChain ChromaDB Python Anaconda Git

🔗 isnotJack/Side-Projects/AI

- Implementation (for fun) of an autonomous system, for detecting **CVEs**, based on predictive artificial intelligence (**Large Language-Model**) using LangChain and Ollama to proactively and autonomously identify and address security vulnerabilities in software applications.
- Creation of a Chroma **vector database** to store and manage **embeddings**, implementation of a question answering mechanism (with **GUI**) based on the presence or absence of CVEs associated with applications installed on **Win** and **MacOs** operating systems.

Pentester Tools and CTF competition - TryHackMe/ HackTheBox/ Overthewire

Hands on

🔗 Linux Nmap Metasploit BurpSuite WireShark JohnTheRipper OWASP ZAP Nessus Hydra

🔗 isnotJack/CTF

- Completed various learning paths focused on **penetration testing**, **network security**, and **ethical hacking**.

SIEM Security Information and Event Management

SOC Analyst

🔗 Event Viewer Python PowerShell Azure Log Analytics RDP Git

🔗 No directory

- Using a custom PowerShell script to extract metadata from the Windows '**Event Viewer**' to forward to third-party APIs to derive geolocation data.
- Configured a **Log Analytics workspace** in **Azure** to ingest custom logs containing geographic information (latitude, longitude, state, and country). With the intent of mapping geographic data in Azure Sentinel.
- Configured an **Azure Sentinel** (Microsoft cloud SIEM) to display global attack data (**RDP brute force**) on the world map based on the physical location and extent of attacks.

WORK EXPERIENCE

High School Teacher

Empoli, FIIS01600E

🔗 Stack ISO/OSI C++ HTML CSS Mysql PHP AES DES HMAC

📅 Oct 2023 - Dec 2023

- Substitute as High School teacher of "Computer Science" at "Istituto Superiore Statale Fermi - Da Vinci".

EXTRACURRICULAR AND CERTIFICATIONS

Cisco Cybersecurity Essentials - Cisco Introduction to Cybersecurity

Certification, Brindisi

With letter of merit for achieving a score greater than 95%

📅 May 2019