Nicol Emanuele

+39 3343687232

nicol.eeemanuele@icloud.com

github.com/nixkitax

linkedin.com/in/nicol-emanuele

EDUCATION

Erasmus Experience	Stockholm University, Stockholm - 2024
M.S. Computer Science	Università degli Studi Milano-Bicocca, Milano - 2025
B.S. Computer Science	Università degli Studi dell'Insubria, Varese - 2023

CERTIFICATIONS

CompTIA Security+ (Expected 12/25)

Google Cybersecurity Professional Certificate

PROJECTS

Cloud Honeypot & SIEM Attack Visualization Lab

Source: github.com/nixkitax

Platforms and Technology Used: Azure VM, Azure Sentinel, Log Analytics, PowerShell, Windows Event Logs, Geolocation API, KQL, Custom Logs

EXPERIENCE

Company: Run Times Machines   Jun 2023 - Jan 2024

Title: Cryptographic Application Developer (Intern)

- Responsible for designing and implementing a Zero-Knowledge proof system for Schnorr signature verification using zk-SNARKs and Circom; optimizing elliptic curve operations; automating testing pipelines; and researching blockchain privacy applications with technical documentation.

Company: Provably.ai   Feb 2025 - Present

Title: Vector Database Research Assistant (Intern)

- Conducted research on vector databases for efficient storage and retrieval of high-dimensional embeddings; implemented Locality-Sensitive Hashing (LSH) to optimize approximate nearest neighbor searches; explored scalable algorithms for real-time similarity search over billions of vectors; and investigated methods to enhance verifiability and trustworthiness of search results within the project thesis.

ADDITIONAL SKILLS AND TECHNOLOGIES

Application Security, Secure Development, Threat Modeling, Vulnerability Assessment, Code Review, DevSecOps, Secure Coding, Risk Advisory, Security Workshops, Penetration Testing, SAST, DAST, Vulnerability Management, Cryptography, Authentication, Authorization, OAuth 2, OpenID Connect, JWT, Distributed Systems, Docker, Kubernetes, Cloud Security, AWS, Azure, GCP, Software Development Life Cycle, SSDLC, Security Policies, Security Controls, Security Training, Security Automation