SIMONE PIO TOSATTO

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EDUCATION

Master's Degree in Cybersecurity *February 2025*
HDBW: University of Applied Sciences, Munich, Bavaria

Bachelor's Degree in System and Network Security *October 2023*
University of Milan, Milan, Italy

EXPERIENCE

Head of IT Security and Developer **7+ years of experience** - 2016-2023
Tosattofruit S.R.L Caorle, Venice, Italy

- Decreased attack surface by implementing **firewall rules** and conducting **penetration tests** on company networks and systems.
- Optimized customer order processing by developing an **online order platform** handling 300+ orders daily.

Digital Forensics Analyst and Developer **1+ year of experience** - 2018-2019
SecurCube S.R.L. Asolo, Treviso, Italy

- Investigated severe crimes using structured forensic methodologies and tools like **Paladin OS, Autopsy, write-blocked hardware, and Kali Linux** to retrieve critical evidence.
- Designed and developed BTS Tracker, collaborating with the core development team to analyze cell signals for forensic investigations.

PROJECTS

NAIR (NeuralAgent for Intelligence Reconnaissance) *https://github.com/ksanda5/NAIR*

Developed an AI-powered system to detect wildfires using Copernicus Sentinel-2 satellite imagery. The model analyzes images to identify fire locations, which are then used to deploy a swarm of smart drones for real-time data collection. This approach enhances wildfire detection accuracy and speeds up response times for emergency services. This project won 3rd place at the 8th CASSINI Hackathon: EU Space for Defence and Security.

AST-iPyNB *https://github.com/Simo56/AST-iPyNB*

Built a malware classification system using a feedforward neural network implemented with scikit-learn. The detector analyzes Portable Executable (PE) files and classifies them as benign or malicious, improving the efficiency of threat detection in cybersecurity operations.

From Anti-Cheat to Spying Software? An In-Depth Malware Analysis of Vanguard [Master's Thesis]

Conducted an in-depth security analysis of Riot Games' Vanguard, a kernel-level anti-cheat software, to assess its privacy risks. Using static and dynamic analysis tools like IDA, WinDbg, and Ghidra, the research explored potential vulnerabilities, reverse engineering, bypass techniques, and the broader implications of kernel-mode software on user security and digital privacy.

PERSONAL ACCOMPLISHMENTS

Represented Italy in multiple WEVZA European Beach Volleyball Championships and won the Austrian U21 National Beach Volleyball Championship.