

# Michael Tezza

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## Education

### University of Trento

Expected Mar 2027

Master's Degree in Computer Science (Cybersecurity Track)

Trento, Italy

- **Relevant Coursework:** Advanced Programming of Cryptographic Methods (Rust), Network Intrusion and Anomaly Detection with Machine Learning (Python), Security Testing (Java), Security Experiments: Attacks and Defenses (Java, Python), Multimedia Data Security (Python), Distributed Systems (Java), Autonomous Software Agents (JavaScript)

### University of Trento

Sep 2023

Bachelor's Degree in Computer Engineering

Trento, Italy

- **Relevant Coursework:** Introduction to Computer and Network Security, Operating Systems, Computer Networks, Computer Architecture, Probability Theory (R), Introduction to Machine Learning (Python), Advanced Programming (C++)

## Experience

### ACS Data System Spa

Dec 2022 – Present

SOC Engineer

Verona, Italy

- Monitored and managed 24/7 MDR/MXDR security operations using Cortex XDR and SentinelOne, investigating alerts and coordinating incident response with internal teams and clients.
- Performed log analysis and correlation via SIEM (Sumo Logic) to detect threats, reduce false positives, and improve alert efficiency.
- Administered email security infrastructure (Libraesva) and supported vulnerability assessments with risk reporting on internal and external assets.
- Developed automation scripts and custom security tooling in Python, JavaScript, Rust, and TypeScript to streamline workflows and accelerate response activities.
- Built security dashboards and KPI-based reporting, optimizing alert tuning and supporting proactive threat monitoring.

## Projects

### Privacy-Preserving Auctions | Rust

[\[Code\]](#)

- Developed a privacy-preserving sealed-bid auction platform using cryptographic commitments and non-interactive proofs.
- Enabled public offline verification of auction correctness without revealing losing bid values.
- Implemented Bulletin Board-based transparency and randomness-backed proof validation mechanisms.

### C2PA Trust Validation Tool | Python

[\[Code\]](#)

- Improved trust validation for C2PA media manifests through certificate-chain verification and cryptographic integrity checks.
- Implemented recursive provenance validation across asset history using official Content Credentials trust stores.
- Benchmarked validation accuracy against the official Rust *c2patool* using automated dataset-based comparison reports.

### Deliveroo Multi-Agent Challenge | JavaScript / Node.js

[\[Code\]](#)

- Implemented intelligent agents for block pickup and delivery using A\* pathfinding and multi-agent coordination with PDDL planning.
- Optimized communication and strategies between agents, achieving 4th place in competition.

## Technical Skills

**Programming Languages:** Rust, Python, Java, JavaScript, TypeScript, C, C++

**Technologies:** React.js, Django, Flask, PyTorch, Bootstrap, Node.js, Git, Docker, Linux

**AI & Cybersecurity:** SentinelOne, Palo Alto Cortex, Cisco, Anthropic, TryHackMe | Sumo Logic, MDR/MXDR, Libraesva | Python automation

**Spoken Languages:** Italian (Native), English (B2)