

LORENZO PERONESE

B.Sc. in Computer Science | Software Engineer | Systems & Cybersecurity

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EDUCATION

Alma Mater Studiorum – Università di Bologna | B.Sc. in Computer Science (Laurea in Informatica, L-31)

Oct 2022 – Oct 2025

Bologna, Italy

- Final Grade: **109 / 110** | Weighted GPA: **27.43 / 30** (Equivalent to 3.7 / 4.0 GPA, ECTS Class A equivalent).
- **Bachelor's Thesis:** "Deep Learning within the SDN Paradigm: Anomaly Detection in Industrial Control Systems"
Advisor: **Prof. Marco Prandini** | Repository: github.com/lorenzoperonese/bachelor-thesis
Investigated programmable network security in Software-Defined Networking (SDN) for industrial SCADA environments; designed and evaluated deep neural network models for real-time anomaly detection across industrial packet flows.
- **Relevant Coursework:** Algorithms & Data Structures (30L), Principles of Programming (30L), Programming Languages (30L), Computer Security Lab (30/30), Introduction to Machine Learning (30/30), Web Technologies (30/30), Operating Systems (28/30), Computer Networks (27/30), Software Engineering (27/30), Combinatorial Optimization (29/30).

PROFESSIONAL EXPERIENCE

PAT srl | Software Engineer / Full Stack Developer

Jan 2026 – Present

Montebelluna (TV), Italy

- Engineered core backend services and modules for **HelpDeskAdvanced (HDA)**, PAT's enterprise B2B ticketing and Enterprise Service Management (ESM) platform built on .NET (C#, VB.NET) and Microsoft SQL Server.
- **AppSec & Vulnerability Remediation (WAPT / VAPT):** Collaborated directly with internal and client-appointed security testing teams attempting to exploit the platform; analyzed audit reports and exploit PoCs against OWASP Top 10 standards (XSS, SQLi, CSRF, Insecure Direct Object References / Broken Access Control, Information Disclosure).
- Systematically reproduced flaws in isolated staging using **Postman**, **Burp Suite**, and custom **Python** scripts; implemented code-level mitigations, coordinated verification retests with offensive teams, and integrated **SonarQube** SAST quality gates.

CYBERSECURITY TRAINING & SELECTED PROJECTS

CyberChallenge.IT | National Cybersecurity Training Program & CTF Competition

Feb 2025 – May 2025

Università di Bologna / CINI

- Selected for the intensive cybersecurity training program at UniBo under Prof. Marco Prandini; trained in binary exploitation, reverse engineering (**Ghidra**, **GDB**), web security (**Burp Suite**), cryptography, and network defense within a highly competitive local cohort (UniBo team ranked 3rd at the CyberChallenge.IT National Finals).

Image Separation | Python, TensorFlow, Keras – image-separation.lorenzoperonese.it ↗

2025

- Engineered a deep neural network capable of isolating and separating mixed overlapping image layers originating from different image distributions, optimizing custom reconstruction loss functions.

Vezgammon | Go, Vue.js, PostgreSQL, WebSockets – vezgammon.lorenzoperonese.it ↗

2024

- Engineered a real-time multiplayer platform featuring concurrent matchmaking services in **Go**, WebSocket state synchronization, and PostgreSQL persistence in an Agile/Scrum workflow.

Only Jump | C++, CMake, ncurses – onlyjump.lorenzoperonese.it ↗

2023

- Constructed a 2D arcade platform game in **C++** utilizing **ncurses** and **CMake**; implemented modular game physics, custom keybinding subsystems, audio playback, and event-driven loops.

Kebabo | Java, Game Theory, Minimax – kebabo.lorenzoperonese.it ↗

2023

- Constructed an automated Connect-X game-playing engine implementing minimax with alpha-beta pruning, dynamic search depth heuristics, and bitboard state representations.

SKILLS & LANGUAGES

Security & Systems: WAPT / VAPT remediation, OWASP Top 10, SAST (SonarQube), Burp Suite, Postman, Ghidra, Linux, Proxmox VE
Programming: Python, C, C++, Go, JavaScript / TypeScript, SQL (PostgreSQL, SQL Server), Bash, C# / .NET
Tools & Tech: Git, Docker, Vue.js, Node.js, WebSockets, CMake, .NET Core
Languages: Italian: Native • English: IELTS Academic (Scheduled: Dec 2026 – Target: Band 7.5+ / C1)