



Marco Luyckx

FREELANCE CYBERSECURITY ENGINEER
DEVSECOPS ENGINEER

CONTACT

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📍 Brussels, Belgium

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LANGUAGES

French **Native**

English **C1**

CERTIFICATIONS

✅ **ISC2 CC**
(Certified in Cybersecurity)
Apr 2024 – Apr 2027

AWARDS

★ **CSCB 2024**
• Top 15 / 500+ teams

★ **CSCB 2023**
• Top 35 / 300+ teams

CTF RANKINGS

🎯 **TryHackMe**
• Top 2%

🎯 **PicoCTF**
• 26,545 pts

🎯 **Root Me**
• 1,645 pts

CONFERENCES

📍 **FOSDEM**
• 2020, 2023-2026

📍 **Pass the SALT**
• 2025

📍 **Cybersec Europe**
• 2025-2026

ABOUT

Cybersecurity engineer based in Brussels, driven by the challenge of making software secure by design.

🛡️ **Shift-left security:** integrate security from design to deployment

⚙️ **Pipeline automation:** SAST, DAST & SCA into CI/CD pipelines

🗣️ **Developer enablement:** train teams to write secure code

EXPERIENCE

👤 **Cyber Security Engineer** Nov 2025 – Present
[UNDISCLOSED] · Part-time

Due to the sensitive nature of this role, details cannot be shared publicly. Happy to discuss responsibilities and achievements during a live conversation.

🛡️ **Cyber Security Engineer** Sep 2024 – Present
NEVERHACK · Full-time · Brussels

🔧 **Technical:**

- Code review of web applications and integration of SAST/DAST tools into CI/CD pipelines
- Deployed a self-hosted collaboration platform (11+ services) using IaC/CaC with multi-tier network segmentation
- Designed an ISMS and security policies aligned with ISO 27001
- Developed secure web applications with a security-by-design approach
- Penetration tested web applications, delivered reports and coordinated remediation
- Reviewed cybersecurity educational content for military training programs

🏢 **Business:**

- Pre-sales support including demos and licensing of cybersecurity and DevSecOps technologies
- Delivered technical presentations and workshops to technical and non-technical audiences

🎓 **Internship Trainee** Aug – Oct 2023

Micropole BeLux · Internship · Brussels

🔧 **Technical:**

- Offensive testing of infrastructure using Vagrant, Ansible, Docker, Terraform
- Automated client-specific password policies through IaC/CaC
- Delivered cybersecurity awareness sessions to improve security posture

🎓 EDUCATION

🎓 **MSc Cybersecurity – System Design, Analysis and Forensics** 2022 – 2024
Université libre de Bruxelles (ULB) · Magna cum laude

📄 Thesis: "Developing an Adaptive Cyber-Range Tailored to User Skill Requirements Through Dynamic Scenario Generation"

🔗 Activities: Social engineering, Practical case studies, IT governance

🏛️ **BSc Computer Science – Software Eng., System Arch., Algorithmics** 2019 – 2022
Université libre de Bruxelles (ULB) · Cum laude

🔗 Activities: Digital Electronics, System Administration, Astrophysics

🔗 SKILLS

🛡️ Security Testing

Penetration Testing 🌟🌟🌟🌟🌟

SAST / DAST 🌟🌟🌟🌟🌟

Code Review 🌟🌟🌟🌟🌟

Threat Modeling 🌟🌟🌟🌟🌟

Web App Security 🌟🌟🌟🌟🌟

API Security 🌟🌟🌟🌟🌟

🔧 DevSecOps & Automation

CI/CD Security 🌟🌟🌟🌟🌟

Docker 🌟🌟🌟🌟🌟

Ansible 🌟🌟🌟🌟🌟

Terraform 🌟🌟🌟🌟🌟

GitHub Actions 🌟🌟🌟🌟🌟

Kubernetes 🌟🌟🌟🌟🌟

🔗 Programming

Python 🌟🌟🌟🌟🌟

JavaScript 🌟🌟🌟🌟🌟

Bash 🌟🌟🌟🌟🌟

TypeScript 🌟🌟🌟🌟🌟

📋 Governance & Standards

ISO 27001 🌟🌟🌟🌟🌟

OWASP 🌟🌟🌟🌟🌟

ISMS Design 🌟🌟🌟🌟🌟

NIST 🌟🌟🌟🌟🌟

Risk Assessment 🌟🌟🌟🌟🌟

🏛️ UNIVERSITY PROJECTS

🛡️ Security

🧠 **Network Host Classification ML** 19/20

Classifies network hosts from DNS traffic as human or bot using machine learning algorithms (logistic regression, decision trees, random forests, neural networks).

🔗 **Tar Fuzzer / Vulnerability Discovery** 17/20

Automatically generates malformed inputs to find crashes and vulnerabilities in a tar extractor. Uses generation-based fuzzing with targeted header manipulation.

Network Attack Simulation

17/20

Demonstrates network attacks (port scanning, DDoS, ARP poisoning) and their firewall defenses on an emulated network topology using Mininet.

Rainbow Table & SHA256 Hash Cracking

18/20

Generates rainbow tables and cracks SHA256 password hashes. Supports table generation, hash attacks, or both in sequence.

Secure Calendar Application

17/20

Online calendar application focused on security with emphasis on data protection, secure design, and containerized deployment.

Machine Learning

Digit Recognition Web App

18/20

Web application that recognizes handwritten digits using supervised machine learning classification. Built for Printemps des Sciences 2022.

Software Engineering

AutoChef – Recipe & Meal Planner

17.5/20

Desktop and web application for managing recipes, planning meals, generating shopping lists, and finding nearby stores.

L-Type – Multiplayer Shoot 'em Up

17.5/20

Vertical scrolling multiplayer arcade game with configurable difficulty, weapon upgrades, and co-op gameplay.

PERSONAL PROJECTS

Security

USB Arsenal

Bash Bunny & Rubber Ducky payload collection for authorized red team engagements. Multi-platform credential extraction, keystroke capture, network reconnaissance, and data exfiltration with standardized OPSEC guidelines.

Flipper WiFi Cracker

Automated WPA/WPA2 cracking pipeline for Flipper Zero captures. Syncs pcap files, converts to hashcat format, deduplicates networks, filters ISP routers, and tracks results in a unified database.

SiteGuard

Chrome extension prototype for real-time website risk assessment. Rule-based phishing and scam detection with 15+ heuristic rules, brand impersonation checks, and optional AI-powered analysis.

PosturePilot

Security posture management SaaS with AI-powered remediation recommendations. Multi-tenant architecture with RBAC, SOC2/ISO compliance mapping, and deterministic risk scoring.

AI & Platforms

IR Mission Control

Facilitator-led incident response training platform. Real-time collaborative simulation with role-based gameplay, deterministic scenario engine, ops budget constraints, and AI-powered rubric grading.

OraLys

AI-powered oral examination platform for universities. Voice-based assessments with real-time Whisper transcription, LLM-powered rubric scoring, and instructor override workflows.

ChapterMind

Learning platform that transforms EPUB books into AI-generated summaries, flashcards, and interactive mindmaps. Features robust chapter detection, spaced repetition scheduling, and XXE/compression bomb prevention.

StoryBuddy

AI bedtime story generator with voice cloning. Personalized stories using GPT-4, custom narration via ElevenLabs, gamification system with achievements and streaks, and family account management.

Apps & Tools

Packxr

Smart packing assistant with weather-aware list generation. Interactive checklists, destination insights, AI chat recommendations, and PDF export. Web (Next.js) and mobile (Expo) apps.

Mxmories

Privacy-first iOS app that clusters camera roll photos into meaningful memories. On-device processing with Core Data, location-based titles, and daily "On This Day" ritual notifications.

Whispering

Android voice transcription app using Groq Whisper. One-tap recording, smart AI formatting, local note storage, and auto-clipboard copy. Multiple themes and language support.

Guess the Elf

Christmas family guessing game where players identify family members from caricature drawings. Quiz mode with scoring, confetti animations, and gallery. Runs locally on home network.

HOBBIES

Escape games

🔍 OSINT & HUMINT

📱 Technology (Flipper Zero, Raspberry Pi, Rubber Ducky)

🏊 Sports: Gymnastics, Swimming

📖 Reading – Sci-fi: 1984, Brave New World, Neuromancer, Fahrenheit 451, Snow Crash

💬 TESTIMONIALS

“ Marco brings deep technical expertise and clear communication in equal measure. Whether breaking down a forensic artifact or walking the team through an attack chain, he makes sure everyone stays aligned. What stands out most is his discipline: once he commits to a problem, he does not let go until it's fully resolved. No shortcuts, no loose ends. The kind of teammate you want beside you when it matters most.

Ayoub Bouhine

Verified Colleague

Digital Forensics & Incident Response – Proximus Ada