Radosław **Konieczny**

Software & Security Engineer · Cybersecurity Student

Wrocław, Poland

(+48) 691-488-625 | konieczynrad@gmail.com | radoslaw-portfolio.pages.dev | https://github.com/dhmztr | LinkedIn

Education

Wrocław University of Science and Technology

Wrocław, Poland

Bachelor's Degree in Cybersecurity (4th semester) | GPA 4.84/5.50 — *Expected Jan. 2028*

- **Key Coursework:** Applied Cryptography, Computer Forensics, Incident Response & Cloud Computing.
- **Activities:** Member of KN White Hats cybersecurity scientific club; author of published research articles on security topics.

Electronics Vocational School in Jelenia Góra

Jelenia Góra, Poland

Vocational Diploma – IT Technician — *2024*

- **Systems & Networking:** Network Management, Cisco IOS, Windows Server, Active Directory, Linux.
- **Software & Architecture:** Web Development (PHP, JavaScript), MySQL, Computer Architecture.

Skills

Languages (Proficient)	Rust, C, Python, SQL, Bash
Rust Frameworks	Tokio, Axum, Actix, Rocket, Diesel, Iced
Languages (Familiar)	JavaScript, Assembly, PowerShell, Lua
OS & Tools	Linux, Docker, Kubernetes, Nix, Git, AWS, PostgreSQL, MariaDB, Redis, Splunk, GrayLog, Windows, RouterOS, Cisco IOS
Concepts	Zero-Trust Architecture, JWT Auth, WebSockets, P2P Networking, GitOps, Binary Exploitation, ROP Chains
Cybersecurity	Radare2, GDB, Ghidra, Nmap, BurpSuite, Wireshark, Metasploit, Nessus, Lynis, Hashcat, Aircrack-ng, Hydra, John The Ripper
Spoken Languages	Polish (Native), English (C1)

Experience

Infotel Software

Poland

Software/Security Engineering Intern — *Jul. 2025 - Sep. 2025*

- Sole architect and engineer of a **full-stack log analysis platform** (Rust/React/Python) shipped to production — company's first capability to aggregate, search, and analyze infrastructure logs, replacing manual review.
- Engineered a high-performance **Rust backend** with JWT authorization, WebSocket real-time streams, and a dynamic admin panel for detection rule and content management.
- Implemented **automated anomaly detection** with configurable alerting rules and remediation triggers — closed-loop response without manual inspection.
- Built a C# monitoring application to visualize client latency trends and surface responsiveness degradation early.

City Hall | CPU ZETO | Compan-IT

Poland

IT Infrastructure & Software Development Intern — *Feb. 2022 - Apr. 2023*

- Deployed and maintained Windows workstations across an Active Directory domain; managed KVM virtualization infrastructure.
- Wrote Python automation scripts, optimized SQL queries, and developed VB client interfaces.
- Configured Eaton-managed PDUs and serviced multi-vendor enterprise servers (HP, Cisco, Dell, IBM).

Programming Projects

SeChat — P2P End-to-End Encrypted Messenger (client · server)

Rust, Tokio, Iced, WebSocket, STUN, ChaCha20-Poly1305, Argon2id, Ed25519, X25519 — *2026*

- Designed and shipped the full workspace end-to-end: **iced GUI client, headless CLI, and relay server** (seserver) — three crates, CI on GitHub Actions, GPL-3.0.
- Blind relay server carries only ciphertext addressed to identity hashes; handles **presence signaling, offline-message mailbox, and UDP STUN responder** for NAT hole punching (TURN-style fallback).
- **End-to-end ChaCha20-Poly1305** with ephemeral session keys derived per-session via **X25519 ECDH + HKDF** for forward secrecy; history encrypted at rest with a deterministic key from long-term identity.
- Local-only identity: Ed25519 + X25519 keypairs; private keys encrypted at rest with **Argon2id + ChaCha20-Poly1305** and a user password, never leaving the device.

Zero-Knowledge Secret Sharing Platform

Rust, Axum, ChaCha20, PostgreSQL, Redis — *2025*

- Built a full-stack Rust web app with **client-side ChaCha20 encryption** — backend never sees plaintext (zero-knowledge by design).
- Enforced ephemeral link-based access with configurable TTL and view limits, backed by PostgreSQL metadata and Redis caching.

RESTful API Server & ConcealMe

Rust, Tokio, SQL, Linux, Aircrack-ng — *2024*

- **API Server:** Async TCP authentication server (Rust/Tokio) with secure credential storage and API key lifecycle management.
- **ConcealMe:** Linux CLI utility for MAC address randomization and passive wireless reconnaissance via Aircrack-ng.

Homelab Kubernetes Cluster

Kubernetes, NixOS, Flux, Agenix *2025*

- Architected and deployed a **bare-metal Kubernetes cluster** for self-hosted services, CI runners, and a full monitoring stack.
- Implemented **GitOps workflows** via Flux for declarative continuous delivery; managed configs with NixOS and secrets with Agenix.

Binary Exploitation Lab

x86-64, GDB, pwntools, radare2 *2024*

- Built a vulnerability research environment for **stack, heap, and ROP chain exploitation** on hardened binaries.
- Practiced bypassing modern mitigations (NX, stack canaries, ASLR/PIE) and solved CTF reverse engineering challenges.

Certificates & Achievements

2024 **Achievement**, Scientific Scholarship from the President of Jelenia Góra *Poland*
2026 **Achievement**, Scholarship from Politechnika Wrocławska *Poland*
2026 **Certificate**, Cisco Ethical Hacker & Google Cybersecurity Certificate
2026 **Certificate**, CCNA: Introduction to Networks & Switching, Routing, Wireless Essentials
2024 **Certificate**, OSSTMM Security Expert Cyber.Mil & Windows System Security Cyber.Mil