Louis Burda

louis@attacking-lab.com [redacted] German & English native

Education and Work Experience

09/2025 - present Attacking-Lab	**Founder and Managing Director** leading a team of 15 developers • Organized the A/D CTF for the ECSC 2025 in Warsaw, Poland
02/2025 - 09/2025 Binamic-Security	Binary Analysis Engineer for **Software Composition Analysis** • Matching engine based on statistical analysis of instruction sequences • LLVM-based optimization of P-CODE IR to normalize code for comparison
09/2023 - 01/2025 genua	Software-developer for **High-Performance Network Analysis** • Design and implementation of high-performance data structures in Rust • Building a holistic attack detection and remediation strategy
05/2023 TU Berlin	Bachelor thesis in **Information Security** (**Grade: 1.0 with honors**) *Undermining AMD Secure Encrypted Virtualization through Cache Side-Channel Attacks* — awarded **Rolf-Niedermeier-Preis** for an outstanding bachelor thesis
11/2019 - 05/2023 TU Berlin	**Computer Engineering B.Sc.** at the *TU Berlin* (**Grade: 1.4** / Highest: 1.0) • Machine Intelligence I & Compiler Design (master's courses)
03/2020 - 02/2021 SOPAT	Software-developer in **Computer-Vision for Embedded-Systems** • Developing a smart chemical probe for AI-based particle classification
06/2019	**Abitur Exam** at JFKS Berlin bilingual school (**Grade: 1.4** / Highest: 1.0)

Extracurricular Engagement

12/2024	**Executive board member** at *AG Rechnersicherheit e.V.* at the TU Berlin
10/2024	*European Cyber Security Challenge (ECSC) 2024*, **placed 1st**
07/2022	*Cyber Security Challenge Germany (CSCG) 2022*, **placed 1st**
11/2021	*CyberSecurityRumble* CTF with university team, **placed 1st globally**
06/2019	**President's Award** for academic excellence

Skills & Tools

RE / Binary	Disassemble and script with BinaryNinja, Ghidra and radare2
Exploitation	Use tools like pwntools/pwndbg to ROP, pivot and ret2libc
Symbolic Execution	Explore constraints with angr/KLEE, solve them with Z3
Web & Pentesting	Proxy traffic with BurpSuite/mitmproxy, hunt DOM XSS with FoxHound
Agentic Work	Build sandbox tooling and monitoring for tracing LLM agents

Writeups available at ctf.sinitax.com