

Markus Sawatzki

Cybersecurity Engineer

About

- 📍 Tokyo JP
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Pentesting/Reverse Engineering Tools

GDB Ghidra Radare2
Wireshark Burp Suite

Programming Languages

Java C C++ Python
JavaScript Bash

Markup Languages

LaTeX XML Markdown

Languages

Japanese (*Business level*)
English (*Fluent*)
German (*Native speaker*)
Russian (*Fluent*)

Interests

Computer Science

Binary Exploitation
Reverse Engineering
Cryptography
Programming Languages and Compilers
Software Engineering

Philosophy

Language
Logic
Computationalism
Buddhism

Summary

Cybersecurity expert with a Bachelor of Science, specializing in penetration testing and exploit development. Currently working as a Cybersecurity Engineer in the Forensics Department at Digital Data Solution Inc. in Tokyo, Japan.

Experience

Cybersecurity Engineer

Digital Data Solution Inc.

08/2024 - Present

Penetration testing, vulnerability research, exploit development, and team training on advanced cybersecurity techniques.

- Perform penetration testing, focusing on low-level exploits (buffer overflows, memory corruption, privilege escalation), while identifying vulnerabilities and detecting indicators of compromise.
- Research emerging attack methodologies, encryption technologies, and reverse engineer malware/proprietary software to identify malicious code and vulnerabilities.
- Educate team members on practical cybersecurity techniques, including password recovery, encryption analysis, and exploitation methodologies.
- Conduct digital forensics investigations to analyze compromised systems, logs, and artifacts for breach impact assessment.

Medical Engineering Student Assistant

St. Vincenz Krankenhaus (Hospital), Paderborn, Germany

06/2022 - 06/2023

Supporting medical engineering department with IT security related tasks.

- Conducted risk analysis for network infrastructure and network-connected medical devices, presenting findings and offering recommendations.
- Executed penetration tests on medical devices and web interfaces.
- Facilitated responsible disclosure processes for identified vulnerabilities.

Tutor for "IT Security" Course

University of Paderborn, Paderborn, Germany

10/2021 - 03/2022

Designed, prepared and presented exercises, lecture contents and exam tasks. The list of topics includes:

- Symmetric and Asymmetric Encryption
- TLS
- Network Security
- Web Security

Awards

Finalist in the "Hacking Challenge - Germany's Best Hacker 2022" CTF Competition

NextGenHackers gGmbH

"The Hacking Challenge 'Germany's Best Hacker' seeks the best ethical hackers and emerging talents in the cybersecurity industry."

Education

University of Paderborn, Paderborn, Germany

Paderborn, DE

10/2015 - 08/2023

Bachelor of Science Computer Science

- IT Security
- Introduction to Cryptography
- Programming Languages and Compilers
- Embedded Systems
- Secure Software Engineering
- Programming
- Software Engineering

Projects

Channel Blocker · <https://github.com/Time-Machine-Development/Channel-Blocker>

01/2018 - Present

A web extension for Chrome, Firefox, etc. that blocks YouTube™ videos and comments based on user-provided blacklists and/or regular expressions.

- JavaScript
- WebExtension
- Open Source

CTF Participation

01/2019 - Present

- Hacker101 CTF
- Damn Vulnerable Web Application (DVWA)
- the cryptopals crypto challenges
- OverTheWire
- PortSwigger Web Security Academy