Markus Sawatzki

B.Sc. in Computer Science

About

- Tokyo JP
- markus.sawatzki@protonmail.com

Pentesting/Reverse Engineering Tools

GDB Ghidra Radare2 Wireshark Burp Suite

Programming Languages

Java C C++ Python JavaScript Bash

Markup Languages

LaTeX XML Markdown

Languages

English *(Fluent)*
German *(Native speaker)*
Russian *(Fluent)*
Japanese *(Basic conversational level)*

Interests

Computer Science

Binary Exploitation
Reverse Engineering
Cryptography
Programming Languages and Compilers
Software Engineering

Philosophy

Language
Logic
Computationalism
Buddhism

Summary

Bachelor of Science graduate with expertise in IT security, specializing in penetration testing and reverse engineering.

Experience

Medical Engineering Student Assistant
06/2022 - 06/2023

St. Vincenz Krankenhaus (Hospital), Paderborn, Germany

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
10/2021 - 03/2022

University of Paderborn, Paderborn, Germany

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

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

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 Acadamy

Education

University of Paderborn, Paderborn, Germany
10/2015 - 08/2023

Paderborn, DE

Bachelor of Science Computer Science

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

Awards

Finalist in the 'Hacking Challenge - Deutschlands Bester Hacker 2022' CTF Competition
NextGenHackers gGmbH

The Hacking Challenge 'Deutschlands Bester Hacker' seeks the best ethical hackers and emerging talents in the cybersecurity industry.

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