

# Markus Sawatzki

B.Sc. in Computer Science

## 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

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 Academy

## 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

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### **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."