

Lars Ursprung

Cyber Security and Software Engineer

 dev-lu |  lars-ursprung |  larsursprung.com |  Frankfurt, Germany

WORK EXPERIENCE

SAP

Cyber Defense Associate

Walldorf, Germany / Newtown Square (PA), USA

Since Nov 2023

- Led and performed penetration tests on enterprise-scale cloud platforms, identifying critical vulnerabilities.
- Coordinated bug bounty submissions acting as a strategic connection between security researchers and engineering teams, ensuring timely, accurate triage and remediation of vulnerabilities.
- Designed and developed an automation platform using Python JavaScript - featuring AI Agents and RAGs - to automate Cyber Threat Intelligence and Threat Hunting efforts.
- Helped to create a new threat hunting team, utilizing the MITRE ATT&CK framework to proactively detect emerging threats.

Commerzbank

Intern in Offensive Cyber Security

Frankfurt, Germany

Nov 2022 - Apr 2023

- Conducted targeted penetration tests and source code reviews on banking systems, ensuring compliance with industry security standards.
- Provided technical briefings to engineering teams after testing, detailing identified vulnerabilities and corresponding mitigation strategies.
- Developed a match-and-replace tool in Python tailored for WebSocket requests, overcoming Burp Suite limitations and streamlining real-time vulnerability testing.

DekaBank

Working Student in Defensive Cyber Security

Frankfurt, Germany

May 2020 - Oct 2022

- Served on the Incident Response team, investigating and containing security incidents to reduce operational disruptions.
- Refined the threat detection rule review process to reduce errors and improve overall security monitoring.
- Applied STRIDE threat modeling to design and implement threat detection rules, identifying and mitigating emerging threats for real-time security monitoring.

Siemens

Working Student in IT

Frankfurt, Germany

Aug 2019 - Feb 2020

- Provided first and second-level technical support, including user administration and Active Directory management, ensuring seamless IT operations.

PROGRAMMING PROJECTS

OSINT Toolkit (Personal Project since 2022)

- Developed an open-source platform for cybersecurity analysts (600+ GitHub stars) using React.JS and Python, which retrieves CTI data from various sources, automates analysis tasks with AI, and features a GUI for creating Sigma and YARA threat detection rules.

Pentest Report Generator (Personal Project in 2024)

- Developed a GitHub-based pentest reporting tool that leverages Markdown templates and GitHub Actions to consolidate individual findings, enforce a consistent report structure, and automate ticket creation — streamlining collaboration and significantly reducing manual effort.

EDUCATION

THM - University of Applied Sciences

Bachelor of Science in Information Systems

Friedberg, Germany

Graduated in 2023

- Computer science-based major with additional courses in economics
- Thesis topic: Creating a penetration testing methodology for IoT devices (Grade: 1.2/1)

Adolf-Reichwein-School

Dual Vocational Education as an IT Specialist for System Integration

Marburg, Germany

Graduated in 2014

SKILLS

Cybersecurity: SIEM, IDS, Threat hunting, Threat modeling, Threat intelligence, Incident response,

Programming: Python, React, JavaScript, SQL, HTML, CSS, LangChain

DevOps: Linux, Container management (Docker), Version control (Git), CI/CD (GitHub Actions)