



Nils Klawitter

AppSec & DevSecOps Freelancer

I'm Nils, a dedicated freelancer specializing in AppSec and DevSecOps. My focus is on securing software and implementing robust security practices in software development.

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📍 Lübeck, Germany

🌐 securedbytes.de



SKILLS

API Security

Application Security

Cloud Security

Code Audit

Cryptography

DAST

Data Privacy

DevSecOps

Identity and Access Management (IAM)

OWASP

SAST

SCA

Secure Architecture Design

Secure Coding Practices

Secure SDLC

Threat Modelling

Vulnerability Assessment

Web Application Security



EXPERIENCE

Freelancer

SecuredBytes

02/2023 - Present

Freelancer in Application Security and DevSecOps

Focus Area

- Application Security and DevSecOps
- Secure Software Development Lifecycle
- Security and Cryptographic Concepts
- Cryptographic Engineering, PKI, and Cryptographic Protocols

Lübeck, DE

Research Assistant

Technische Hochschule Lübeck

04/2020 - 03/2024

Research assistant with a focus on IT security in the Department of Electrical Engineering and Computer Science

Achievements/Tasks

- Construction and support of laboratory for secure hardware and software development
- Teaching in the field of cryptography, secure software development, IT security
- Research and support of the professors for IT security

Lübeck, DE

Application Security Engineer

TRIOVEGA GmbH

03/2017 - 03/2020

Security Engineer focusing on threat modelling, secure development, software architecture, automated tests, and project management.

Achievements/Tasks

- Establishment of the IT security team in SW development
- Project management and planning in the field of security-relevant system development
- Evaluation and introduction of a DevSecOps process and tools
- External consulting and assessment of system/software architectures regarding IT security

Lübeck, DE

PROJECTS

Vulnerability Management and Secure SDLC @DB InfraGO AG (10/2023 - 02/2025)

- Successful implementation of vulnerability management using DefectDojo
- Consulting and implementation of technical and procedural aspects of vulnerability management using DefectDojo
- Consulting in implementation regarding secure software development lifecycle
- **Skills:** Gitlab, DefectDojo, Vulnerability Management, SCA, SAST, DAST, Python, Kubernetes, ArgoCD, Docker, AWS, Azure, Whitesource/Mend, Greenbone

Threat Modelling using STRIDE @Festo SE & Co. KG (08/2023 - 02/2025)

- Performing Threat and Risk Analysis (TARA) on industry products
- Consulting in a threat modelling process for the customer
- Performing threat modelling after STRIDE using Microsoft Threat Modelling tool
- **Skills:** STRIDE, TARA, MS Threat Modelling Tool

Application Security Specialist @ITZBund (08/2023 - 04/2024)

- Consulting and review of developer teams regarding application security and secure coding in a large federal project
- Spreading awareness of a DevSecOps culture, shift-left and security-by-design principles
- Implementation of tools for a secure software development lifecycle
- **Skills:** AppSec, DevSecOps, SCA, OWASP ZAP, Tekton, Azure DevOps, OpenShift Advanced Cluster Security, OWASP Dependency-Check, Sonarqube

Laboratory for Secure Hardware and Software Development @University of Applied Sciences Lübeck (04/2020 - 03/2024)

- Setup of a secure software development lifecycle using Gitlab for students for practical testing and learning purposes in software engineering
- Implementation of CI/CD pipelines with various security tools such as SAST, DAST, and Dependency Scanner
- Teaching Threat Modelling, Risk Assessments, Incident Management in practical course
- **Skills:** Gitlab, SAST, DAST, TARA, Incident Management

Proof-of-Concept Development of a Security Application Gateway for Industrial Machines (01/2020 - 03/2020)

- Conceptualization, definition of requirements, and system architecture proof-of-concept for a security application gateway for industrial machines
- Creation of a security concept, development of the software and associated tools and organization of a PenTest for the PoC
- Evaluation of feasibility and presentation of results from the PoC case study
- **Skills:** Docker, Podman, embedded Systems, Bash, Rust, Python, Threat Modelling, Secure SDLC

Introduction of DevSecOps/AppSec Processes @TRIOVEGA GmbH (01/2019 - 03/2020)

- Establishment of the IT security team in software development
- Development of guidelines for internal and external software projects regarding the SSDLC
- Training and awareness in secure software development
- Evaluation and implementation of a DevSecOps process and tools, such as SAST, DAST, Threat Modelling, etc
- **Skills:** Gitlab, Secure SDLC, Project Management, Threat Modelling

TECHNICAL SKILLS

IT-Security Standards / Procedures

BSI Standard 200 + Basic Security, BSI Technical Guidelines, ISO 2700X, OWASP, NIST 800-218, OWASP (M)ASVS + SAMM, CVE & CVSS, CWE & CWSS, Common Criteria, CIS Benchmarks

Secure SDLC/DevSecOps

Risk Assessments, Threat Modeling (STRIDE), Code Audits, Penetration Testing, SCA, SAST, DAST, Dependency Scanning, Container Security, Secure Deployment, Threat Monitoring, Vulnerability Management, Incident Response Management, Infrastructure Scanning & Hardening

Security Tools

OWASP ZAP, SonarQube, Synk, Checkmarx, Veracode, Gitlab CI/CD, BURP, Trivy, Whitesource/Mend, Greenbone, Gitlab SAST & Dast, OWASP Dependency-Track, DefectDojo

Project Management Methodologies

Scrum, Kanban, Agile Methods, V-Model, SAFe

Programming Languages

Rust, Java/JEE, Python, C, Bash

Tools

IntelliJ, Eclipse, Visual Studio, VS Code, Gitlab, Ansible, Terraform, Github, Docker, Podman, Kubernetes, OpenShift, MS Office 365, Atlassian Jira/Confluence/Bitbucket



TECHNICAL SKILLS

Cloud

Amazon AWS, Microsoft Azure, GCP

Operating System

Linux, Windows



LANGUAGES

English

Full Professional Proficiency

German

Native



CERTIFICATES

TeleTrust Professional for Secure Software Engineering (T.P.S.S.E.) (05/2024 - 04/2027)

TeleTrust e.V.

TeleTrust Information Security Professional (T.I.S.P.) (07/2023 - 07/2026)

TeleTrust e.V.



EDUCATION

Master of Science in Computer Science — IT-Security and Reliability

University of Lübeck

10/2015 - 12/2018

Lübeck, Germany

Bachelor of Science in Computer Science — IT-Security and Reliability

University of Lübeck

10/2012 - 11/2015

Lübeck, Germany