

FELIX SCHLÖSSER

Software Engineer



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Experience

TU-Hamburg (AStA) 2020 – 2023

Full Stack Web Developer and Sysadmin

Developed a custom CMS backend and frontend, as well as internal CRUD web applications. Operated several on-premises services on virtual machines using Ansible; including observability metrics and alerting.
django, wagtail CMS, postgresql, grafana, prometheus, ansible

TU-Hamburg (Secure Cyberphysical Systems) 2023

Tutor: Python for Data Analysis

Taught weekly classes for up to 20 students. Topics included everything from algorithms to data analysis, visualization and machine learning.
pandas, matplotlib, scikit-learn

TU-Hamburg (Communication Networks) 2018-2023

Tutor: Computer Networks & Internet Security

Taught weekly sessions for engineering students on python programming, data visualisation, data preparation and introduced them to Machine Learning.
Tutor Lehrpreis 2020, Raspberry Pi, wireshark

TM Rescue Respiration UG (Hamburg, Germany) 2020-2022

Project: User Interface for a Medical Device

Development and deployment of a graphical user interface for an open hardware ventilator, created by a team of volunteers. Financed by the German Federal Government and certified by TÜV-Süd for manufacturing in newly industrialized countries.
pyqt5, tkinter,

Rongheng Information Technology Co. (Shanghai, China) 2019

Internship: Computer Vision based Inspection

Research and early development of a computer vision based industrial quality control system to identify defects in glossy, curved surface, metal parts. Creation of a capture setup and a dataset of 1000+ images. Development of a containerized jupyter notebook based prototype using edge detection and morphological operations for feature extraction.
docker, jupyter, scikit-image, pillow

Education

Technische Universität Hamburg 2016-Present

Computer Science (B.Sc.)

Université de Technologie de Compiègne (France) 2022

Erasmus+ Exchange

ISI Language School (Tokyo, Japan) 2015-2016

Asian Languages and Culture Certificate

Pater Damian Sekundarschule (Eupen, Belgium) 2009-2015

Abitur

Skills

Python *advanced*

Web Backend, GUI, Data Analysis, ML

Rust *intermediate*

Personal Projects - systems, games

Haskell *intermediate*

University Project - compiler construction

C *basic*

University Projects

JavaScript *basic*

Web Frontend

Soft Skills

Teamwork & Communication

- First Chair of the board of student representatives (AStA)
- NGO volunteering
- Scout Leader

Languages

- German *native*
- English *C2*
- French *C1*
- Japanese *JLPT N4*

Thesis

A LINDDUN-driven Approach

Privacy Threats in Exposure Notification Protocols

Extracted a dataset of privacy threats from previous Literature, created a DFD model and used the LINDDUN threat trees to elicit privacy threats. Enabled the identification of novel privacy threats and provided insights into the effectiveness of the LINDDUN and DFDs for distributed software systems.

Supervisors: Dr. Nicolás Díaz Ferreyra, Prof. Dr. Riccardo Scandariato