



PROFIL

I am an open-minded and sociable person with a passion for exploring new topics, particularly in the fields of technology and science. I enjoy reading, listening to music, and spending time in nature. My academic journey has provided me with hands-on experience in various programming projects and group assignments, where I developed strong teamwork and problem-solving skills. Additionally, I have been involved in scientific research projects, further enhancing my analytical abilities.

PERSONAL INFORMATION

Date of Birth: April 18, 2000
Address: Meißnerstraße 8, Fellbach,
70736, Germany

CONTACT

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LANGUAGES

German (Native)
English (Fluent)
French (Intermediate)

Franziska Vollmer

Master Student in Computer Science

EDUCATIONAL BACKGROUND

Technical University of Darmstadt

Master of Science – Computer Science (Expected Graduation: May, 2025)

October 2022 – Present

DHBW Mannheim

Bachelor of Science- Business Informatics

October 2019 – September 2022

Freie Waldorfschule Esslingen

Abitur

September 2006 – July 2019

WORK EXPERIENCE

Technical University of Darmstadt – Student Research Assistant

March 2023 – Present

Contributed to various research projects in the areas of system security and hardware security, gaining valuable insights into advanced security practices and enhancing technical research skills.

Technical University of Darmstadt – Teaching Assistant (Operating Systems)

October 2023 – April 2024

Tutor for the course Operating Systems. Provided support to students in the Operating Systems course, assisted with the preparation of course materials, and facilitated student understanding of key concepts.

Technical University of Darmstadt – Teaching Assistant (Embedded System Security)

May 2024 – September 2024

Primarily responsible for preparing course content and conducting tutorial sessions to support students in understanding embedded system security concepts. Assisted in practical lab exercises and clarified complex topics.

KPMG Working Student

October 2022 – March 2023

Supported security consulting for key accounts, contributing to the implementation of regulatory standards and improving security protocols.

Oberlandesgericht Stuttgart Internship

October 2019 – September 2022

Worked as a student assistant in the technical department, focusing on the security aspects of court applications, and assisting in the enhancement of digital security measures.

SKILLS

- Knowledge in:
 - Hardware Security
 - System Security
 - Satellite Security
 - Threat Modeling
 - Vulnerability Analysis
- Technical Skills:
 - Programming Languages: Python, C++, Java
 - Tools and Frameworks: Docker, Kubernetes, Git
 - Operating Systems: Windows, Linux
- Soft Skills:
 - Strong Communication
 - Problem-solving
 - Teamwork
 - Organizational skills

PUBLICATIONS

1. **Md Sadun Haq, Thien Duc Nguyen, Ali Şaman Tosun, Franziska Vollmer, Turgay Korkmaz, and Ahmad-Reza Sadeghi**
SoK: A Comprehensive Analysis and Evaluation of Docker Container Attack and Defense Mechanisms. 45th IEEE Symposium on Security and Privacy (S&P), May 20–23, 2024.
2. **David Koisser, Richard Mitev, Nikita Yadav, Franziska Vollmer, and Ahmad-Reza Sadeghi**
Orbital Trust and Privacy: SoK on PKI and Location Privacy Challenges in Space Networks. 33rd USENIX Security Symposium, 2024.
3. **Nikita Yadav, Franziska Vollmer, Ahmad-Reza Sadeghi, Georgios Smaragdakis, and Alexios Voulimeneas**
Orbital Shield: Rethinking Satellite Security in the Commercial Off-the-Shelf Era. IEEE 2024 Security for Space Systems (3S).

SUMMER SCHOOLS

ACACES 2024 – 20th International Summer School on Advanced Computer Architecture and Compilation for High-Performance Embedded Systems

Fiuggi, Italy

July 14–20, 2024

Participated in this prestigious program organized by the HiPEAC Network, focusing on advanced topics in computer architecture, compiler technology, and high-performance embedded systems. Engaged in intensive coursework and discussions with top researchers, gaining in-depth knowledge and practical skills in architecture and compilation for embedded systems.

TSS Spring School – In Conjunction with the 29th IEEE European Test Symposium

The Hague, Netherlands

May 17–20, 2024

Attended the TSS Spring School, dedicated to hardware security in partnership with the IEEE European Test Symposium. Covered critical topics in hardware vulnerability analysis and secure system design, enhancing my understanding of hardware security measures through practical workshops and expert lectures.

REFERENCES

Prof. Dr. Peter Buxmann

Chair of Information Systems, Technical University of Darmstadt

Prof. Dr. Mariami Gachechiladze

Professor of Computer Science, Technical University of Darmstadt

Prof. Dr. Iryna Gurevych

Professor of Computer Science, Technical University of Darmstadt