

Simon Bußmann

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EDUCATION

- Technical University of Munich**, Informatics, B.Sc. Oct. 2021 – Present
- Binary Exploitation practical course – finished top of the course
 - Network Security and Security Engineering
 - Bachelor Thesis: CSI-Based Multipath Filtering for Accurate Wi-Fi Time-of-Flight Ranging
- Gymnasium Adolfinum Moers**, Allgemeine Hochschulreife (Abitur) Sep. 2013 - Jun. 2021

EXPERIENCE

- Founder & Co-Chair**, h4tum e.V. Sep. 2025 – Present
- Founded TUM's CTF club to compete in CTFs and connect students interested in security
 - Organized a local CTF for around 80 participants and built the registration platform from scratch
 - Spoke about CTFs and the club at a career fair to a live audience of over 60 [Online recording](#)
 - Conduct weekly meetings to build community and support knowledge sharing
- Teaching Assistant**, Technical University of Munich Oct. 2024 – Present
- IT-Security (IN0042)*
- Ran two weekly tutorials of 20–30 students for a course of 700–900 students
 - Reworked worksheets into interactive presentations; helped design and grade exams
- Introduction to Computer Networks (IN0010)*
- Ran two weekly networking tutorials of 20–30 students each, physical through application layer
 - Built and self-hosted a Dockerized Python app for slide delivery with monitoring (Prometheus/Grafana)
- Junior Software Developer (Work Study)**, development GmbH & Co. KG Oct. 2021 – Sep. 2023
- Added OAuth2/OIDC support to RapidClipse via a Tomcat valve-layer hook
 - Prototyped a Keycloak-based auth layer to decouple customer identity from a proprietary DMS
 - Implemented multi-tenancy in Keycloak to reproduce proprietary identity features
- Data Scientist (Internship)**, IKIM – Institute for Artificial Intelligence in Medicine Jun. 2021 – Aug. 2021
- Analyzed how quickly resident physicians improved at writing diagnostic reports
 - Built a chatbot that helps residents learn from their errors and displays report quality over time
 - Built an automated pipeline enabling report-quality comparison on a dataset of 54M+ diagnostic reports
- Junior Software Developer (Part-Time)**, HKS Informatik GmbH Sep. 2020 – May 2021
- Implemented distributed computation using Dask reducing initial load times by 500%

CAPTURE THE FLAG (CTF)

- h4tum CTF Team** | ctftime.org 2024 – Present
- 1st place at BYU CTF 2025; 2nd place at Platypwn 2025; 2nd place at GPN CTF 2024
 - Qualified as a team for the German Hacking Championship (DHM) 2024
 - Competed across pwn, reverse engineering, misc, forensics and mobile
 - Contributed to write-up collection [Insomnihack 2026 Peaky Binders Writeup](#)

PROJECTS

- Tutor Tool** | *Python, Flask, Docker, Prometheus, Grafana* Apr. 2025 – Present
- Self-hostable platform that serves tutorial slide decks secured by time-limited access tokens
 - Built-in monitoring via Prometheus and Grafana
- h4tum CTF Registration Tool** | *Python, Flask, Redis, Discord API* Jan. 2026
- Registration tool for in-person event with magic-link authorization
 - Verifies participants via emailed magic links and auto-onboards them onto the event Discord server

TECHNICAL SKILLS

Languages: Python, C, Java, SQL, JavaScript, HTML/CSS
Tools: Linux, Docker, Git, Keycloak, Flask, Slidev
Security/RE Tools: pwntools, Z3, GDB, IDA, Wireshark
Focus Areas: IT-Security, Networking, Reverse Engineering, Backend