

Tobias Oberdörfer

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Work experience/Internships

Professional Penetration Tester at InfoGuard AG July 2022 - Present
Red teaming engagements, penetration testing of network infrastructure, mobile and web applications as well as development of new tools and improvement of existing internal tools.

Teaching Assistant at ETH Zurich August 2020 - July 2021
Teaching exercise classes and supporting professors in "Systems Programming and Computer Architecture" and "Formal Methods and Functional programming".

System engineer at Piloly.com GMBH June - July 2017
Creating an automated crawler system for the Web Design company Piloly.com to increase advertisement reach over email by more than twofold.

Education

ETH Zürich - EPFL 2021 - 2024
Master of Science, Major in Cyber Security, Minor in Machine Intelligence
Thesis: Efficient Pipelining for Windows Driver Vulnerability Research
Graduation in August 2024

ETH Zurich 2018 - 2021
Bachelor of Science, Computer Science
Thesis: Characterization of Interrupt Handling in Board Management Controllers
Graduated with a GPA of 5.03 in August 2021

Skills

Programming languages: Python, C, Go, Rust, Java, Haskell, TypeScript
Platforms and tools: Linux and Windows, IDA Pro, GDB, Python pwntools, Intel SGX
Languages: German (native), English (proficient), Italian (upper-intermediate)
Others: Experience with Windows kernel driver exploitation, DDoS attack and defense in the SCION network, network protocols like TLS 1.3, UDP and TCP, kernel driver optimization

Extracurricular projects

2018 - Present: Member of the CTF teams flagbot and organizers.
2021: DEFCON 21 Finalist with the team organizers reaching 10th place.
2021: Finishing in the 2nd place on the worldwide CTF leaderboard with organizers.
2020 - 2021: Organizing the workshop "Attacking and Defending Web Applications 2.0" for VIScon at ETH as part of flagbot.
2020 - 2022: Maintaining and improving tooling for scanning network traffic and automating attacks in use by flagbot and organizers.
2019: Participation in "ETH Week 2019: Rethinking Mobility" an interdisciplinary team-oriented prototyping workshop to develop ideas for the future.