Tobias Oberdörfer

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Education

ETH Zurich - EPFL   2021 - Present
Master of Science, Major in Cyber Security, Minor in Machine Intelligence
Graduation in January 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

Internships/Work experience

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   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.
IT internship at Schweitzer Project   July - August 2016
Experience in organization-wide management of authentication and access control through Microsoft Active Directory.

Skills

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

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 - Present:	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.