

# 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 experiences

**Professional Penetration Tester** at InfoGuard AG July 2022 - Present  
Penetration testing of web applications, mobile applications, and network infrastructure as well as development of new tools and the 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.

## Skills

**Programming languages:** Python, C, 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 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.