

Leonardo Galli

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Education

B. Sc. in Computer Science *ETH Zurich* 2018 - 2021

Selected Subjects: "Compiler Design", "Embedded Systems", "Algorithms, Probability and Computing" and "Information Security"

Swiss Matura *Realgymnasium Rämibühl, Zurich* 2011 - 2017

Bilingual Matura with focus on English, Mathematics, Biology, Music and Latin

Papers and Talks

Emmutaler: Fuzzing the iOS boot loader *ETH Zurich* **Thesis** 2021

Building tools to enable fast binary-only fuzzing of USB and IMG4 in recent SecureROM versions and a discussion of the resulting discoveries, such as checkm8.

Introductory Lectures for CTF Newcomers *flagbot* **Lecture Series** 2020 - Present

How does Zoom Store Recordings? *VIScon Digital* **Talk** 2020

- Slides: 📄 flagbot.ch/zoom.pdf
- Recording: 📺 youtu.be/Dp-gH_YPfik

Attacking and Defending Web Applications *VIScon Digital* **Workshop** 2020

Work Experience

ETH Zurich *Teaching Assistant* 2019 - 2021

Giving exercise sessions, helping students and supporting professors in multiple subjects.

Cubera Solutions AG *Software Developer* 2017 - 2020

Working on multiple AR/VR mobile apps, such as SQWISS! (sqwiss.ch, Lead iOS Developer) or Who is it (whoisit.cubera.ch, Lead Developer).

Extracurricular Activities

flagbot CTF Team Captain *#1 Swiss team in 2019, 2020 and 2021* 2019 - Present

ooorganizers CTF Team Captain *#11 worldwide in 2021* 2021 - Present

Developing Apps for Students as part of our Student Association 2020 - Present

Projects

nmips 🌐 *Organizers/nmips* 2021

IDA Plugin adding support for nanoMIPS, including decompilation and debugging

Radarr 🌐 *Radarr/Radarr* 2016 - 2019

A movie collection manager for Usenet and BitTorrent users, with currently over 20'000 active users

Skills

Programming languages: C, C++, C#, Swift, Go, Python, Haskell, JavaScript

Assembly: Analyzing, writing and optimizing assembly for X86, ARM and nanoMIPS

Reverse engineering: Take apart anything, from hugely complex C++ apps to boot loaders

Platforms and tools: IDA Pro, macOS, Windows, Linux, AFL++, QEMU

Languages: German (native), English (native), French (B2)

Honors and Awards

DEF CON CTF Finalist ooorganizers — 10th place and best European team 2021

52. Nationaler Wettbewerb Schweizer Jugend forscht *grade excellent* 2018