

# ADRIEN BOUQUET | RESUME

EPFL-ETHZ Cybersecurity Master Student

**Status:** M.Sc. Cybersecurity - Computer Science Student

**Fields:** Cryptography, Software Security, Privacy Engineering, Machine Learning, Network Security

**Techs:** C, C++, Python, Rust, Git, Docker, Java, Scala, ASM, LLVM

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

Chexbres, Switzerland

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## Summary

With **great curiosity** and **determination**, I have always had an interest in **Computer science** and **Research**. Presently, I am enrolled a **Joint Master's degree in Cybersecurity** (Computer Science) between the **Swiss Federal Institutes of Technology in Lausanne (EPFL) and Zurich (ETHZ)**, since September 2023. Prior to that, I completed my Bachelor's degree in Computer Science at EPFL in 2023. Alongside my studies, my passion for the arts and my practice of music have developed a **creative vision, perseverance and rigor** in my work. I look forward to exploring new perspectives through future ventures!

## Research & Engineering Domains

During my Bachelor studies, Software Engineering, Theory of Computation and Mathematics were my main focus. While pursuing my Master's degree, I primarily study **Cryptography, Information Security, Software Security, Privacy Engineering, Machine Learning and Network Security**.

## Experience

**Master Thesis** - Internship at NagraVision Sàrl

Sep. 2025 - Feb. 2026

- Implementing FALCON post-quantum encryption scheme in RISC-V, and evaluating it against side-channel and fault attacks. Exploring and assessing hardware countermeasures
- Supervised by Aymeric Genêt, and Prof. Serge Vaudenay

**Master's Semester project** - SPRING Lab - EPFL

Spring 2025

- Constant-time client-side FHE operations : implementing a client for BGV cryptographic scheme
- Supervised by Christian Knabenhans and Prof. Carmela Troncoso

**Master's Semester project** - HexHive Lab - EPFL

Spring 2024

- Building a robust test suite on type confusion vulnerabilities in C++
- Supervised by Nicolas Badoux and Prof. Mathias Payer

**Bachelor's Semester Project** - Dependable Systems Lab - EPFL

Spring 2023

- Implementing a heuristic Query Count Estimation in LLVM
- Supervised by Solal Pirelli, Can Cebeci and Prof. George Candea

**Student Assistant** - EPFL Course: CS-202 Computer Systems

Spring 2025

- Summarizing, reformulating and explaining theoretical material to students. Helping and assisting students in their projects and exercises. Correcting and grading projects and exams

**Teaching Assistant** - EPFL Summer School: Game Theory and AI

Jul. 2024 - 2025

## Education

**Joint Master Degree in Cybersecurity** EPFL - ETHZ

2023 - present

**Bachelor of Computer Science** Swiss Federal Institute of Technology Lausanne

2020 - 2023

**Maturité Fédérale** Gymnase Auguste Piccard

2017 - 2020

## Hobbies

In addition to my studies, I have followed a classical accordion course for 13 years, obtaining a certificate last year, as well as theoretical music courses. I also play an active part in accordion orchestras. During my studies, I liked to take part and staff in events at EPFL and socialize with my peers. I also enjoy cooking, reading, travelling and hiking!