

# Elias Myers

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M.Sc. Computer Science

GitHub: eliasmyers  
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## EDUCATION

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<b>M.Sc. in Computer Science</b> , <i>Eidgenössische Technische Hochschule Zürich (ETH Zürich)</i> Focus on Security and Privacy - Courses in Applied Cryptography, Privacy-Enhancing Technologies, Network Security and ML for Healthcare	September 2025 - Present
<b>BSc in Communication Systems</b> , <i>École Polytechnique Fédérale de Lausanne (EPFL)</i> Cumulative GPA: 5.47/6.0	September 2019 - July 2023
<b>Undergraduate Exchange - Computer Science</b> , <i>University of Waterloo</i>	September 2022 - April 2023

## PRACTICAL EXPERIENCE

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<b>Research Project Intern</b> <i>Cryptography, Security and Privacy Lab (CrySP) - University of Waterloo</i> Evaluation of statistical disclosure attacks on modern mixnets architecture, assessing anonymity degradation under realistic conditions.	<b>January 2023 - May 2023</b> <i>Waterloo, Canada</i>
<b>IT Specialist</b> <i>Geneva Society of Pediatrics</i> Rebuilt the website <code>pediatre-ge.ch</code> end-to-end with NextJS and Payload CMS, as well as building a custom appointment booking system to be used by pediatricians in Geneva.	<b>January 2022 - Present</b> <i>Geneva, Switzerland</i>
<b>Service Desk Auxiliary</b> <i>Lausanne University Hospital (CHUV)</i>	<b>September 2021 - September 2022</b> <i>Lausanne, Switzerland</i>
<b>Co-Founder and Treasurer</b> <i>Students4Students - EPFL</i>	<b>September 2020 - September 2022</b> <i>Lausanne, Switzerland</i>
<b>Teaching Assistant, Calculus I</b> <i>Prof. Simone Deparis - EPFL</i>	<b>September 2021 - December 2021</b> <i>Lausanne, Switzerland</i>

## RECENT PROJECTS

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### ChaCha20-Poly1305 - High-Performance Implementation

Optimized implementation of the ChaCha20-Poly1305 AEAD scheme in C using AVX2 SIMD intrinsics, targeting Intel Skylake microarchitecture, matching OpenSSL's performance.

### Appointments booking platform for pediatricians

Appointment booking platform for pediatricians, handling real patient scheduling. Currently being transformed as a standalone tool to be used by medical practitioners on their own.

### Homelab

Ongoing homelab server under Proxmox VE, including services such as a mediaserver (Arr Suite and Jellyfin), Photos backup (Immich), File storage (nextcloud) and local LLMs (Odysseus).

## SKILLS & INTERESTS

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<b>Spoken Languages</b>	French (Native), English (C1), German (B2), Spanish (A2)
<b>Interests</b>	Privacy-preserving Systems, Applied Cryptography, Provable Security, Theory of Computation, Zero-knowledge proofs, System Security, AI privacy and security
<b>Hobbies</b>	CTFs (pwn and crypto), Homelabing, Board Games, Hiking, Swimming