ERIK GIORGIS

MSc ETH-EPFL Cyber Security Student

@ egiorgis@egiorg.is ● Zürich, CH ○ threddast ▪ erik-giorgis ● 29 January 1999

WORK EXPERIENCE

Security Engineering Intern
Ergon Informatik (Airlock)

📅 Feb 2022 – Jan 2023 📍 Zürich, Switzerland

`Jenkins` `Docker` `Ruby` `PCRE2` `Web Application Firewall`

Airlock is a web application firewall which uses, among others, complex regexes to scan incoming traffic for attacks
- Managed the Airlock's Bug Bounty infrastructure, analyzing hacker reports and patching newly found vulnerabilities
- Streamlined the development workflow, moving to development processes that can support a team of three people
- Development of scripts to manage Airlock instances using its REST API

Enterprise Architecture Intern
Credit Suisse

📅 Jul 2022 – Nov 2022 📍 Zürich, Switzerland

`Access Control` `GDPR`

- Helped in the first design phases and security analysis of the IT architecture needed to support the use of digital assets (e.g. NFTs)
- Proposal of a new architecture for the onboarding of prospect clients

Teaching Assistant in Computer Systems
ETH Zürich

📅 Sept 2021 – Dec 2021 📍 Zürich, Switzerland

`Teaching` `Operating Systems` `Distributed Systems`

Alongside my MSc I have assisted in teaching the course "Computer Systems", holding weekly sessions with around 15 students

EXTRACURRICULARS

President
OBIS – MTEC Student Organisation

📅 Sep 2022 – Mar 2023

- Managed a team of 15 students of the MTEC student organization

IT Manager
OBIS – MTEC Student Organisation

📅 Sep 2021 – Mar 2023

- Launched a new website for OBIS: www.obis.ethz.ch
- Successfully moved OBIS documentation to Atlassian Confluence

Treasurer
VIS Kontaktparty 2022

📅 Mar 2021 – Ongoing

VIS Kontaktparty is the largest academic IT recruiting fair in Switzerland, with a revenue of more than CHF 200'000
- Invoice management and accounting

SKILLS

`Java` `C/C++` `Haskell` `Python` `NixOS` `Bash`

`Git` `LaTeX` `Emacs` `GNU/Linux`

LANGUAGES

Italian ●●●●●

English ●●●●●

German ●●●●●

Swedish ●●○○○

EDUCATION

MSc ETH-EPFL Cyber Security
ETH Zürich

📅 Sep 2023 – Ongoing 📍 Zürich, Switzerland

MSc ETH MTEC
ETH Zürich

📅 Sep 2021 – Sep 2023 📍 Zürich, Switzerland

Micro- & Macroeconomics | Financial Market Risks | Technology and Innovation Management

Master Thesis: "Mailing Lists vs GitHub: Comparing Software Development Communication Methods"

My thesis focused on reconstructing GitHub and mailing lists communication networks and comparing their topology.

Supervised by:
- Systems Design Group, ETH

SEMP Exchange at KTH Stockholm
KTH Royal Institute of Technology

📅 Aug 2020 – Aug 2021 📍 Stockholm, Sweden

Compiler Design | Machine Learning | Language Engineering | Ethical Hacking | Computer Security

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BSc ETH Computer Science
ETH Zürich

📅 Sep 2018 – Dec 2021 📍 Zürich, Switzerland

Cybersecurity | WebRTC | ElkOS | Formal Methods and Functional Programming | Visual Computing

Theoretical Computer Science | Computer Networks

Bachelor Thesis: "Security Analysis of Aloha by Elk"

Aloha by Elk is an IoT system that allows musicians to play together over the Internet with negligible latency. The aim of the thesis was to assess the security of Aloha, with a focus on its server infrastructure.

Supervised by:
- Secure & Trustworthy Systems Group, ETH
- Software Systems Architecture and Security, KTH