FRANCESCO INTOCI

Eclectic and curious CyberSecurity Master student. Joint degree at EPFL and ETH.

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Francesco Intoci intx4

PROGRAMMING

Python | Go | C | P4_16 | SQL

Familiarity with:

Scala | Java | JavaScript | React | Node.js | HTML | CSS | Bash

TOOLS

BurpSuite | Wireshark | tcpdump | Ghidra | gdb

TECHNOLOGIES

Linux | Git

Familiarity with:

Spark | Docker | Vagrant

LANGUAGES

Italiano: Native

English: Advanced / C1

Spanish: Basic / A2

French: Basic / A1

PROFILE

*I am a very **determined and responsible** individual: **reliability, hard work and a strict sense of duty** are some of my key strengths.*
*I am aware of the importance of communication and interaction, being a **good fit for any team-working activity**.*
*I am a creative person, who does not despise **thinking out side of the box to deliver results**.*
*I am a very **pro-active** person: I am able to **learn new technologies fast**, and to deliver readable and efficient code in small time-frames.*
*I enjoy an **active lifestyle**: I love doing sport (I have been an **agonistic canoe polo player**) and travelling.*

EDUCATION

MSc – Cyber Security EPFL

2020 – today Lausanne, CH

- Award: 2021-2022 **Excellence's Fellowship**
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- Assistant Étudiants - Mobile Networks, teacher Prof Jean-Pierre Hubaux - Spring Semester 2022
- Assistant Étudiants - Information Security and Privacy, teacher Prof Jean-Pierre Hubaux - Fall Semester 2021
- Association: CTF team polygl0ts – Spring Semester 2021

MSc – Cyber Security – Exchange Semester ETH

Fall Semester 2021 Zurich, CH

- Association: CyberGroup training for Geneve 9/12 challenge - Spring semester 2022

BSc Computer Engineering Politecnico di Torino

2017 – 2020 Turin, IT

- GPA: 110 / 110 cum laude
- Certification: CyberChallenge.IT 2020 (CTF training) – CINI
- Student assistant - Computer Science - Fall Semester 2019

Diploma Maturità Scientifica Liceo O.M Corbino

2020 Siracusa, IT

- GPA: 100 / 100
- Various participations in Maths and Physics Olympiads
- School first place in "Bocconi MATEpristem" mathematics games

PROJECTS

Privacy-Preserving and Efficient Deep Neural Network Inference with Multiparty Homomorphic Encryption:
Semester project at EPFL LDS lab, Spring 2022 (Work in Progress)

IMovies CA:
Implementation of a PKI infrastructure for a fictional company. Development of full-stack web application. Deployment on multiple virtual machines using Vagrant. Hardening of the machines

13 Rexford:
Implementation of Control Plane (Python) and Data Plane (P4_16) of Claranet Network topology using Mininet. First prize award in ETH "Advenced Topics on Communication Networks" course competition

ACME client:
ACME client for LetsEncrypt Pebble in Go

SecretStroll:
The scope of the project was the implementation and privacy analysis of SecretStroll, a fictional Location Based System. The project involved the implementation of an Attribute-Based-Credential protocol for user authorization, a data analysis task on network metadata for eventual privacy leakages, and the implementation of a Web Fingerprinting attack on the system when used behind TOR network.

SMC framework:
Secure Multiparty Computation framework written in Python

ACM Sigmod 2021:
Solving ER tasks using PySpark ML pipeline

Discovering Higg's Boson:
Binary classification task using regression models on the ATLAS experiment dataset by CERN

Hippocrates:
Secure, decentralized file storage system written in Go