ANDREA TULIMIERO

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EDUCATION

ETH, Zurich *September 2018 - August 2020*
M.Sc. in Computer Science
Partial GPA: 5.4 (out of 6.0)

Sapienza University of Rome, Rome *September 2015 - June 2018*
B.Sc in Engineering in Computer Science
Final grade: 110 cum laude (out of 110)

EXPERIENCE

Software Engineer & Research Assistant July 2019 - Present
Network Security Group, ETH *Zurich, Switzerland*

· Increased SCION Web App user engagement by 13% by redesigning Database and API to include a feature to experiment with network multipath technology. [**Python** (Django), HTML/**JavaScript**]
· Built a SCION compatible home router (SCION Box) to allow for the widespread adoption of the SCION internet architecture. [**OpenWRT**, Linux **net-tools**]

Algorithms Laboratory (ETH) September 2019 - January 2020

· Solved competitive programming like problems by implementing a combination of basic (Greedy, Dynamic Programming, Graphs) and advanced (Network Flow) algorithms. [**C++**]

Advanced Operating Systems (ETH) March 2019 - June 2019

· Developed a research-oriented microkernel in a team of 3.
· Implemented physical and virtual memory manager, inter-process communication, and filesystem. [**C**]

Google Workshop for Cloud and Development November 2017 - June 2018
Sapienza University/Google Tel Aviv *Rome, Italy/Tel Aviv, Israel*

· Coordinated a team of 5 to build a Web platform to drastically ease and speed up the sharing of findings between the malware researchers community. [**Python**, HTML/**JavaScript**]

LEADERSHIP AND AWARDS

· **Speaker** at the SCION Day conference with investors presenting SCION Box. (talk available here)
· Administrator of the ETH CTF team's capture the flag event.
· Selected as one of 5 participants of Sapienza University's Honors Program for a semester-long research project about dynamic malware analysis. [**C++**]
· Awarded with Mario Negri scholarship for outstanding results achieved during my B.Sc. studies.

PROGRAMMING LANGUAGES AND COMPUTER SCIENCE

Python, C, C++, JavaScript, SQL Linux, TCP/IP, Data structures, Hadoop

EXTRACURRICULAR ACTIVITIES

· Competitive programmer on HackerRank and LeetCode. [**C++**]
· Freelancer full-stack web developer realizing ad-hoc solutions for small companies.