

Fabrizio Cara

Contacts

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Google Scholar: scholar.google.com/citations?user=0UIIMggAAAAJ&hl=it

Summary

A fast-learning and technology enthusiastic person, I completed my academic studies in Computer Engineering with honors. For two years, I have been working on Computer Security research projects. I enjoy organizing and exchanging ideas to develop an approach to achieve the most significant outcomes for the team. For the future, I am looking for new experiences and opportunities to improve myself and my knowledge in the fields of Computer Security and Software Engineering.

Experiences

- **Research Assistant – PhD** (2018 – now)
Course: Computer Engineering
Research Field: Computer Security
Location: University of Cagliari, Cagliari, Italy
Laboratory: PRALab (pralab.diee.unica.it)
Supervisor: Prof. Giorgio Giacinto
 - **Research Internship** (12/2019 – 06/2020)
Research Field: Computer Security (Internet of Things) & Software Engineering
Location: Georgia Institute of Technology, Atlanta, Georgia, Stati Uniti
Laboratory: Astrolavos Lab (astrolavos.gatech.edu)
Supervisor: Prof. Manos Antonakakis
 - **Research Scholarship** (01/2018 – 07/2018)
Title: Study and development of intrusion detection techniques on X86 and Mobile platforms through the analysis of logs and codes.
Location: University of Cagliari, Cagliari, Italy
Laboratory: PRALab (pralab.diee.unica.it)
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Education

- **Master's degree in Telecommunications Engineering (Internet Engineering)** (2016 – 2018)
Location: University of Cagliari, Cagliari, Italy
Relevant Coursework: Operating Systems, Computer Security, Machine Learning, Smart

Housing, Internet of Things, Computer Architectures, Embedded Systems, Information Theory and Coding, Innovative Architectures and Applications in the Internet, Mobile Networks
Final Grade: 110/110 magna cum laude

- **Bachelor's degree in Electrical and Electronics Engineering (Computer Engineering curriculum)** (2013 – 2016)
Location: University of Cagliari, Cagliari, Italy
Relevant Corsework: Computer Architectures, Communication Networks, Signal Theory, Databases, Digital System Design, Software Engineering, Internet, Web development, Object-Oriented Programming Languages
Final Grade: 105/110
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Publications

- **On the Feasibility of Adversarial Sample Creation Using the Android System API**
Authors: Fabrizio Cara, Michele Scalas, Giorgio Giacinto, Davide Maiorca
Editor: Multidisciplinary Digital Publishing Institute (MDPI)
Date: 09/2020
 - **PowerDrive: Accurate De-obfuscation and Analysis of PowerShell Malware**
Authors: Denis Ugarte, Davide Maiorca, Fabrizio Cara, Giorgio Giacinto
Editor: Springer, Cham
Conference: International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment (DIMVA)
Date: 06/2019
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Skills

Scale: beginner, intermediate, advanced, expert

- Programming Languages:
 - **Python**: advanced
 - **HTML**: advanced
 - **SQL**: advanced
 - **JAVA**: intermediate
 - **CSS**: intermediate
 - **JAVASCRIPT**: beginner
 - **C**: beginner
 - Advanced knowledge of **Windows**, **Linux** and **Android**
 - Intermediate knowledge of **machine learning** algorithms
 - Advanced knowledge of **network traffic analysis** and **reverse engineering**
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Languages

- **Italian**: native speaker
- **English**: advanced level