Gabriele Viglianisi

PROFILE

I'm a Computer Engineer with a focus on computer security, cloud and web technologies. I have recently obtained a Master's degree in *Computer Science and Engineering* from the *Polytechnic University of Milan*. I've taken electives in Cryptography, Data Mining, Artificial Intelligence and Distributed Systems. In my free time, I like experimenting with web technologies and I'm always eager to learn more about how things work.

WORK EXPERIENCE

2016 APRIL SEPTEMBER

IBM Zurich Research Lab
Security research intern

I worked on a research project that explored a novel way to apply fuzz-testing to complex networked applications. I implemented a distributed fuzz-testing infrastructure in C++, which both observed and influenced the program execution.

2014 APRIL JULY

PanPan
Bachelor Thesis, Internship

In collaboration with a local startup, I studied the current NodeJs best practices, then applied them to the existing codebase, and proposed a new server architecture.

OTHER RELEVANT PROJECTS AND EXPERIENCES

Master Thesis

In my thesis, SysTaint[1], I've explored the use of full-system record-replay tools for malware analysis. I've developed plugins for the QEMU-based PANDA reverse engineering platform to extract in-depth behavioural information from the recorded execution of a malware. Working on my thesis, I obtained a good knowledge of malwares and QEMU internals.

Other Projects

- Isamuni[2], a directory of companies, communities and professionals in Sicily, which I wrote, together with some friends, in Ruby on Rails

- The gameboard frontend for the 2017th edition of PoliCTF (Vue.js)

- I am one of the admins of the 1000+ members *Programmatori a Catania* Facebook group, which gathers and connects the programmers located in Catania (Italy)

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[1] www.gabrieleviglianisi.com/files/systaint-thesis.pdf
[2] www.isamuni.it

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EDUCATION

2014 - 2018 **Computer Science and Engineering**
MASTER OF SCIENCE
Polytechnic University of Milan (Milan, Italy)

2010 - 2014 **Computer Engineering**
BACHELOR OF SCIENCE
University of Catania (Catania, Italy)

SOFTWARE SKILLS

- Good practical knowledge of NodeJS, Java, Android, Python, Ruby, C/C++.

- Good low-level understanding of Operating Systems and networking concepts

- Basic malware analysis and reverse engineering skills

- Good awareness of common security vulnerabilities and their mitigation

- Good web development skill in several backend and frontend frameworks, such as RubyOnRails, Express.js, Vue.js, and others

- Experience with both SQL and noSQL databases (PostgreSQL, MySQL, SQLite, MongoDB, Redis)

- Can effectively manage Linux servers, good Docker understanding, can use Ansible

- I have an engineering background, solid maths and problem-solving skills

PERSONAL INTERESTS

- I had the pleasure of taking part into some Security CTF competitions along with my universitys team, *Tower of Hanoi*.

- I'm an avid reader of Hacker News, and I like watching videos and podcasts about several topics, like videogames, cinema and economics.

- I'm a beginner TaiChi practitioner

- I like exploring around and taking weekend trips

COMMUNICATION SKILLS

ITALIAN   Native speaker

ENGLISH   Proficient