



Rafael Medina García

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Education

University of Greenwich

London, United Kingdom

MSC COMPUTER FORENSICS AND CYBER SECURITY

2016 - 2017

- Computing and Information Systems Department Prize for Outstanding Postgraduate Achievement in the Smart Systems Programmes

Universidad Carlos III de Madrid

Madrid, Spain

BACHELOR'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING (TAUGHT IN ENGLISH)

2011 - 2016

- Minor in Computer Engineering

Work experience

PwC Spain

Madrid, Spain

CYBERSECURITY CONSULTANT

March 2018 - currently

- Cybersecurity-oriented tool design and implementation
- Cyber Intelligence
- Security analysis and audit (software, systems, cloud environments, etc.)
- Integration of cybersecurity into software development lifecycles

KPMG Spain

Madrid, Spain

IT AUDITOR (SUPPORTING FINANCIAL AUDIT OF BBVA S.A.)

October 2017 - March 2018

- Auditing of financial applications and processes
- Auditing of systems running financial processes
- Auditing of databases

NIMBEO ESTRATEGIA E INNOVACIÓN S.L.

Madrid, Spain

DEVELOPER (ACADEMIC INTERNSHIP)

Summer 2015

- Backend and frontend development tasks in the CoolReport project
- Presentation of geolocated information

Languages

- **Spanish:** Native
- **English:** Cambridge CPE (March 2011), IELTS 8.0 (April 2016)

Programming skills

Advanced

PYTHON, C, HTML5+CSS3+JAVASCRIPT, C++, RUBY (ON RAILS), JAVA

Intermediate

RUST, BASH, PHP (SYMFONY)

Computer knowledge

- Advanced knowledge of GNU/Linux and Microsoft Windows systems
- Fluent use of command-line programs and environments
- Computer forensics data acquisition and investigation (Autopsy, EnCase, hex analysis)
- Advanced level of (Libre/MS) Office suite software usage
- Intermediate low level/hardware knowledge
- Experience in system administration and management tools (e.g. rsync, ssh)
- Experience in software development employing version control systems (e.g. git)

Featured projects

Tybalt

MSc PROJECT

Development of a hardware keylogger with payload execution and event repetition capabilities.

Outlander

PERSONAL PROJECT

Command and Control (C2) proof of concept using applied steganography for the transmission of payloads.

Personal projects

- **Migration system for Zoe microservices:** Bachelor Thesis, development of a migration system for Zoe agents between remote machines employing load balancing algorithms
- **akamatsu:** Content management system (CMS) developed with the Flask microframework
- **fumi:** Language-agnostic remote deployment tool over SSH
- **wat-bridge:** Proxy that enables sending and receiving messages from a WhatsApp account through a Telegram bot
- **simpleice:** Scheduling of emails in case of emergency
- **pyemtmad:** Python wrapper for the EMT (transport of the city of Madrid) public API
- **GulTalks:** Conference management web system for GUL UC3M society, used to organize talks and workshops twice a year

Contests

- **I T3chFest Programming Contest (held in Codility):** 13th place
- **II T3chFest Programming Contest (held in Codility):** score of 624 out of 1000
- **II T3chFest Hackathon:** 2nd place
- **III T3chFest Programming Contest (held in Codility):** score of 460 out of 600
- **V T3chFest Programming Contest (held in Codility):** 3rd place
- **VI T3chFest Hackathon:** 3rd place

Interests and hobbies

IT

- Free/Libre software and technologies
- GNU/Linux operating systems (using Debian as main OS)
- Software development
- Hardware design and implementation
- Computer forensics and investigation
- Cyber security
- System administration
- Task automation

Hobbies

- Photography
- Karate and Kobudo (brown belt, until 2016)
- Novels (especially fantasy and science fiction)
- Videogames
- Music