Arnau **Gàmez i Montolio**

Hacking · Reversing · Maths

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Experience

Non-affiliated   *Spain*
INDEPENDENT SECURITY RESEARCHER   *Jul. 2020 - Present*

- Reverse engineering
- Malware analysis
- Code deobfuscation
- Program analysis
- Cryptography

Eurecat Technology Centre   *Barcelona, Spain*
BACHELOR'S THESIS INTERNSHIP   *Mar. 2020 - Jul. 2020*

- Research on program synthesis approaches for code deobfuscation
- Research on Mixed Boolean-Arithmetic expressions
- Development of r2syntia
- Link to thesis and code: `https://github.com/arnaugamez/tfg`

University of Barcelona   *Barcelona, Spain*
COMPUTER LAB MANAGER   *Apr. 2019 - Feb. 2020*

Arsenal Consulting   *Boston, US (remote)*
INTERN AS DIGITAL FORENSICS ANALYST AND DEVELOPER   *Jun. 2018 - Sep. 2018*

- Research on Windows Registry
- Research on forensic artifacts within Gmail URLs
- Development of GmailURLDecoder

Bosch i Gimpera Foundation   *Barcelona, Spain*
SOFTWARE DEVELOPER   *Feb. 2017 - Aug. 2017*

- Research on digital color detection and correction
- Development of a custom library for QR-codes decoding

Education

Open University of Catalonia   *Remote*
M.Sc. IN CYBERSECURITY AND PRIVACY   *Feb. 2021 - Present*

University of Barcelona   *Barcelona, Spain*
B.Sc. IN MATHEMATICS
B.Sc. IN COMPUTER SCIENCE AND SOFTWARE ENGINEERING *Sep. 2014 - Jul. 2020*

Warsaw University of Technology   *Warsaw, Poland*
STUDENT EXCHANGE   *Sep. 2018 - Feb. 2019*

Skills

Programming languages	Python, Java, C, C++, ASM (x86, x86-64, ARM), Rust, JS, R
Reverse engineering systems	Windows (userland and kernel drivers), Linux and Android
Reverse engineering tools	IDA, radare2, Cutter, x64dbg, WinDbg, gdb, Frida, Wireshark
Other	SMT, symbolic execution, emulation, fuzzing, cryptography, IR/IL

Languages

Catalan, Spanish	Mother tongue
English	Full professional proficiency (Certificate in Advanced English - Cambridge English)
French, Polish, German	Basic notions

Honors & Awards

2020	**Winner**, Flare-On 7 Reverse Engineering & Malware Analysis Challenge	*Remote*
2019	**1st Place**, HackUPC *TheGame* Programming & Hacking Competition	*Barcelona, Spain*

Extracurricular Activity

Hacking Lliure   *Barcelona, Spain*
CO-FOUNDER AND PRESIDENT   *2016 - Present*

- Catalan non-profit ethical hacking association
- Open source, privacy, security awareness and community

r2con   *Barcelona, Spain*
CO-ORGANIZER   *2017 - 2019*

- Annual conference about radare2
- Technical talks, trainings, CTF and more

Conferences

Hack In The Box Lockdown 002   *Singapore (remote)*
PRESENTER FOR <A REVIEW OF MODERN CODE DEOBFUSCATION TECHNIQUES>   *Jul. 2020*

RuhrSec   *Bochum, Germany (remote)*
PRESENTER FOR <CODE EMULATION FOR REVERSE ENGINEERS: A DEEP DIVE INTO
RADARE2'S ESIL>   *May 2020*

r2con   *Barcelona, Spain*
PRESENTER FOR <A JOURNEY THROUGH ESIL: UNDERSTANDING CODE EMULATION
WITHIN RADARE2>   *Sep. 2019*

Hack In The Box   *Amsterdam, Netherlands*
PRESENTER FOR <OVERCOMING FEAR: REVERSING WITH RADARE2>   *May 2019*

Overdrive Conference   *Girona, Spain*
PRESENTER FOR <STACK MACHINES UNCHAINED: CODE EMULATION WITH ESIL>   *Apr. 2019*

r2con   *Barcelona, Spain*
PRESENTER FOR <INTRODUCING RADARE2 FOR HUMANS>   *Sep. 2018*

Overdrive Conference   *Girona, Spain*
PRESENTER FOR <PLAYING WITH BINARY FORMATS>   *Apr. 2018*

No cON Name LAB   *Barcelona, Spain*
PRESENTER FOR <BRIEF INTRODUCTION TO REVERSE ENGINEERING USING RADARE2> *Apr. 2018*

Rooted CON   *Madrid, Spain*
CO-PRESENTER FOR <HACKING TOKENS: A MASSIVE PROOF OF CONCEPT>   *Mar. 2018*

Matefest/Infofest - University of Barcelona   *Barcelona , Spain*
PRESENTER FOR <AUDITING WIFI NETWORKS>   *Apr. 2017*

(Refer to `https://arnaugamez.com/talks` for an exhaustive listing)