# Andrés Sánchez Marín

15 June 1997 | Madrid, Spain
andres.sanchez@imdea.org | andsanmar.github.io

## AREAS OF INTEREST

My research fields of interest are the Formal Methods, Systems (OS, databases and Security & Privacy), Programming Languages & Paradigms (specially on functional and low level paradigms), Software Optimization, Algorithms and Data Structures, Hardware Architecture and Theoretical Fundations of Computer Science. In resume, I'm interested in all the things that involve the development of reliable and optimized software, also finding weaknesses of bad implementations.

## PROFESSIONAL EXPERIENCE

*IMDEA Software Institute*                                                                                   Madrid, Spain
**Research Internship**                                                                                   Sep 2018 - present
Survey of existing Spectre exploits and existing proposals for countermeasures. Analysis of these countermeasures w.r.t. speculative noninterference. Implementation of a tool for automatically detecting speculative leaks

*Distributed Systems Laboratory at UPM*                                                                      Madrid, Spain
**Internship**                                                                                         Sep 2017 - Dec 2017
Doing test applications over a NoSQL distributed database. Designing and implementing a feature over a Elastic Complex Event Processing for Static and Streaming Data

*Cisco, NBA*                                                                                                 Madrid, Spain
**NBA NetAcad Dream Team member**                                                                                Oct 2016
On the NBA Global Games (Madrid). Learning how to do the network infrastructure for the event. Also, helping installing it

## EDUCATION

*Universidad Politécnica de Madrid*                                                                          Madrid, Spain
**Bachelor of Science in Mathematics and Computing**                                                          2015 - 2019
Member of ACM UPM chapter

## SKILLS

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|---|---|
| LANGUAGES | Spanish (mother tongue) |
| | English (fluent) - 90 TOEFL iBT |
| PROGRAMMING | Haskell, Linux, Prolog, C, Git |
| | Assembly, LATEX, Rust, Python |
| ACHIEVEMENTS | 8 honors in various subjects on Bachelor's degree |
| OTHERS | CCNA 1 & 2 |
| | Free Time Monitor Certification. |
| VOLUNTEER EXPERIENCE | Sumac Wasi "Santo Tomás de Aquino" enhancement project during 2018 summer as a collaborator, also doing recreational and learning activities with a group of 40 kids on a marginal Arequipa (Perú) area. |