

# Antonio Germán Márquez Trujillo

PH.D. IN COMPUTER ENGINEERING

## Contact



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<https://www.german-marquez.me/>



<https://github.com/GermanMT>



Antonio Germán Márquez Trujillo

## Languages

**Spanish:**  
Native.

**English:**  
B2 level.

## Publications

**Feature models to boost the vulnerability management process**

**Vulnerability impact analysis in software project dependencies based on Satisfiability Modulo Theories (SMT)**

**Depex: A software for analysing and reasoning about vulnerabilities in software projects dependencies**

**A dataset on vulnerabilities affecting dependencies in software package managers**

## About Me

PhD in Computer Engineering with strong experience in software development and cybersecurity. Specialized in software supply chain security, combining academic research and practical engineering to address risks in dependencies, build systems, and deployment pipelines. Passionate about building secure software from the ground up.

## Work Experience

### Fullstack Developer and IT Researcher

University of Seville | September 2021 - Current Events

- Design the theoretical contributions of the doctoral thesis.
- Develop and implement the defined theoretical solutions.
- Write, publish and present the work in different scientific journals and congresses.
- I have been the creator and maintainer of the open source organisation for trying my contributions: <https://securechain.dev/>

## Hard Skills

- Knowledge in BackEnd frameworks such as FastAPI or Spring Boot.
- Knowledge in FrontEnd frameworks such as React and NextJS.
- Knowledge in SQL databases such as PostgreSQL, and non-SQL databases such as MongoDB or Neo4J.
- Knowledge in containerization with Docker, and container orchestration with Kubernetes.
- Knowledge in Linux and bash.

## Soft Skills

- Public speaking in both Spanish and English. I have practiced this soft skill by presenting at both national and international conferences.
- High level writing skills, demonstrable by my scientific publications in different journals.
- An innate curiosity for innovation and the technological world. I am always willing to learn, and develop novel solutions.

## Academic Data

### University of Seville

Ph. D. in Computer Engineering - Cum Laude honours  
September 2022 - July 2025

### University of Seville

Master in Software Engineering - Cloud, Data and IT Management  
September 2021 - July 2022

### University of Seville

Degree in Computer Engineering - Software Engineering  
September 2016 - July 2021