

## José Antonio Zamudio Amaya

- **Twitter:** <u>https://twitter.com/joszamama</u>
- LinkedIn: https://www.linkedin.com/in/joszamama/
- GitHub: https://github.com/joszamama

Date of birth: 25/01/2000 Nationality: Spanish

## **ABOUT ME**

Doctoral Researcher at CISPA Helmholtz Center for Information Security - Ph.D. Candidate on Systems Security at Universität des Saarlandes

WORK EXPERIENCE	
[ 01/10/2023 – Current ]	Systems Security Researcher
	CISPA Helmholtz Center for Information Security
	City: Saarbrücken   Country: Germany
	Pursuing my Ph.D. on Systems Security under the guidance of Andreas Zeller at CISPA, one of the most prestigious research centers in the world.
[ 01/10/2023 – Current ]	University Teaching Assistant
	Universität des Saarlandes
	City: Saarbrücken   Country: Germany
	Teaching Assistant in the Security Testing advanced course offered at the Saarland University, defining exercises, projects and exams for 207 students.
[ 15/02/2023 – 01/10/2023 ]	Operations Researcher
	Pablo de Olavide University
	City: Sevilla   Country: Spain
	My research focused on developing complex metaheuristic algorithms for real-world optimisation problems, with special emphasis on graph-based scenarios such as social networks and 5G bandwidth connections.
[01/01/2022 – 01/10/2023]	Software Product Line Researcher
	University of Seville
	City: Seville   Country: Spain
	I conducted research focused on software product lines and highly configurable systems. The goal of my research was to improve the flexibility, adaptability and scalability of software systems by linking theoretical concepts with real applications.
EDUCATION AND TRAINING	
[ 01/10/2023 – Current ]	Ph.D in Computer Science
	Saarbrücken Graduate School of Computer Science  https://www.graduateschool-    computerscience.de/
	<b>City:</b> Saarbrücken   <b>Country:</b> Germany   <b>Field(s) of study:</b> Information and Communication Technologies   <b>Level in EQF:</b> EQF level 8
	Pursuing my Ph.D on Systems Security, specializing in topics such as testing, debugging and monitoring real-time systems.
[ 15/09/2022 – 15/06/2023 ]	Master in Software Engineering: Cloud, Data and IT Management
	University of Seville <u>https://masteroficial.us.es/mis/</u>
	City: Seville   Country: Spain     Level in EQF: EQF level 7   Type of credits: ECTS   Number of credits: 60   Thesis: Optimising the Generation of Chatbots Using Product Line

Techniques

	My thesis deals with the reuse of domain-specific information, integrating user intent, natural
	language processing agents and other features into chatbots. This approach reduces development time and ensures a chatbot tailored to the specific needs of the domain.
[ 15/09/2018 – 15/06/2022 ]	Bachelor in Computer Science - Software Engineering (in English)
	University of Seville <u>https://www.informatica.us.es/</u>
	City: Seville   Country: Spain     Level in EQF: EQF level 6   Type of credits: ECTS   Number of credits: 240   Thesis: Automatic Website Construction Using Software Product Line Techniques
	My thesis focuses on automatically generating, testing and deploying domain-specific websites. Leveraging software product line engineering techniques, domain information is processed and applied to the generation of new websites.
HONOURS AND AWARDS	
[ 19/07/2023 ]	Master's Thesis Distinction with Honors Awarding institution: University of Seville
[ 01/07/2022 ]	Bachelor's Thesis Distinction with Honors Awarding institution: University of Seville
LANGUAGE SKILLS	
	Mother tongue(s): Spanish
	Other language(s):
	English
	LISTENING C1 READING C1 WRITING C1
	SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1
	Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user
DIGITAL SKILLS	
	My Digital Skills
	Programming Languages
	Java   JavaScript   Python
	Software Product Lines   Heuristics and Optimization   Highly Configurable Systems   Low Code / NoCode   NLP   Security Testing   Fuzzing
	Tools and Frameworks
	Node.js   React.js   FastAPI   Docker   MongoDB   Git   Django
PUBLICATIONS	
	Analysis Operations On The Run: Beyond Static Feature Model Analysis in Constraint-
[ 2023 ]	based Recommender Systems
	In this paper, we propose a set of additional analysis operations that provide insights
	regarding potential impacts of applying feature models in constraint-based reasoning
	scenarios where feature models are used to define user preference spaces.
[ 2023 ]	<b>Optimization of Chatbots Generation Using Product Line Techniques</b>
	In this paper we present a solution to optimize chatbot generation by reusing domain artifacts and applying product line engineering techniques.

## Prototyping for the Automatic Generation, Testing and Deployment of WordPress[ 2022 ]Websites Using Software Product Lines (WebSPL)

In this paper we present an automatic configurator that implements a software product line of WordPress sites using a feature model.