

# Juan Manuel García Delgado

COMPUTER SCIENCE · MATHEMATICS

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## Education

### VI Expert in Reverse Engineering and Malware Intelligence

GOOGLE SAFETY ENGINEERING CENTER (GSEC) 

Málaga, Spain

October 2024 - December 2024

Fundamentals of cybersecurity, including static and dynamic application analysis, automated environments, code-level examination, and detection techniques.

### Bachelor's Degree in Mathematics - Undergraduate

Málaga, Spain

UNIVERSITY OF MÁLAGA

September 2019 - June 2025

- Participated in an international exchange program (Erasmus) at Universidade Federal Fluminense, Rio de Janeiro (Brazil).

### Bachelor's Degree in Computer Science - Graduated

Málaga, Spain

UNIVERSITY OF MÁLAGA

September 2019 - June 2024

- Participated in an international exchange program (Erasmus) at Universidade Federal Fluminense, Rio de Janeiro (Brazil).

## Skills

Mathematics	Mathematical Analysis, Algebra, Probability & Statistics, Statistical Inference, Numerical Methods, Optimization
Front-end	React, HTML5, CSS, JavaScript
Programming	Python (NumPy, Matplotlib, PyAutoGUI, Optimize, DEAP, PyTorch), Java, Apex, C, C++, R, Scala
Others	Linux (Ubuntu), Salesforce, Git, Bitbucket, Jira, Tableau, Power Bi, Excel, SCRUM, Docker, Kubernetes, Unit Testing, Cloud
Databases	Oracle SQL, MySQL, MariaDB
Languages	English (Upper Intermediate), Spanish (Native), Portuguese (Proficient), French (Basic)
Soft Skills	Problem Solving, Self-learning, Leadership, Critical Thinking, Team Collaboration

## Work Experience

### Freepik



Málaga, Spain

SALESFORCE DEVELOPER INTERNSHIP

June 2023 - March 2024

- Full-stack development by creating Lightning Web Components, such as account indicators with child accounts, integration with Slack and Jira, search features, modals, and more.
- Performed software development by creating Salesforce-Jira integration components for synchronization and comments via HTTP/webhooks.
- API management and deployment using Google Cloud Platform (GCP) to enhance reliability and scalability of key services.
- Implementation of methods to support the internal API, leveraging cloud-based solutions to optimize performance.
- Creation of flows, custom objects, and fields. Creation of reports and dashboards.
- Implementation of GitHub Actions pipelines to automate deployment processes for Salesforce in production environments.
- Implementation of comprehensive unit tests for each Apex controller, following best practices.
- Improvement of efficiency and optimization of the company's support website, allowing for more accurate results.

## Honors & Awards

2019	<b>Finalist</b> , Finalist, Real Maestranza de Ronda - Highest Honors 	Ronda, Spain
2024	<b>Distinction</b> , Highest Honors in Bachelor's Thesis in Computer Science	Málaga, Spain
2024	<b>Finalist</b> , 2024 MONDRAGON Bachelor's and Master's Thesis Award 	Bilbao, Spain
2025	<b>Finalist</b> , 2025 Airzone Awards for the Best Architecture or Efficient Engineering Final Degree Project	Málaga, Spain

## Projects

### Implementation of Artificial Intelligence Models for Optimizing Energy Self-Consumption and Minimizing Grid Discharges

BACHELOR'S THESIS IN COMPUTER SCIENCE

- Implementation of dynamic coefficients in shared solar energy self-consumption communities.
- Data analysis of users in Ireland to assess the impact of these coefficients on different user profiles and larger samples.
- Development of a custom optimization model to initialize the SLSQP algorithm from Python's minimize library.
- Use of optimization models and data analysis in Python.

### Development of a Machine Learning System for People Recognition

PEOPLE RECOGNITION PROJECT

- Designed and implemented a machine learning system capable of recognizing individuals from images and videos.
- Developed the project using Python, mainly OpenCV and cv2.

### Developed a GNOME Shell Extension

THINKPAD RED LED CONTROL GNOME SHELL EXTENSION

- Implemented functionality using JavaScript and the ec\_sys module of the Linux kernel to manipulate LED states such as On, Off, and Blinking.
- Integrated a Morse code feature to allow custom messages to be flashed via the LED light.