

# Juan Manuel **García Delgado**

COMPUTER SCIENCE · MATHEMATICS

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## Education

### VI Postgraduate Expert in Reverse Engineering and Malware Intelligence

Málaga, Spain

GOOGLE SAFETY ENGINEERING CENTER (GSEC) 

October 2024 - December 2024

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

### Bachelor's Degree in Computer Science

Málaga, Spain

UNIVERSITY OF MÁLAGA

September 2019 - June 2024

- Studied at Universidade Federal Fluminense, *Rio de Janeiro (Brazil)* as part of the program.

### Bachelor's Degree in Mathematics

Málaga, Spain

UNIVERSITY OF MÁLAGA

September 2019 - June 2025

- Studied at Universidade Federal Fluminense, *Rio de Janeiro (Brazil)* as part of the program.

## Skills

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

## Work Experience

### Freepik

Málaga, Spain

SALESFORCE DEVELOPER

June 2023 - March 2024

- Development of Lightning Web Components, such as account indicators with child accounts, integration with Slack and Jira, search features, modals, and more.
- Integration of Salesforce with Jira, development of components for synchronization and comments via HTTP/webhooks.
- Implementation of methods to support the internal API.
- Creation of flows, custom objects, and fields.
- Creation of reports and dashboards.
- 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

### EDUCATION

|      |                                                                                                               |               |
|------|---------------------------------------------------------------------------------------------------------------|---------------|
| 2019 | <b>Finalist</b> , Real Maestranza de Ronda - Hights Honors                                                    | Ronda, Spain  |
| 2024 | <b>Finalist</b> , 2024 Airzone Awards for the Best Architecture or Efficient Engineering Final Degree Project | Málaga, Spain |
| 2024 | <b>Finalist</b> , 2024 MONDRAGON Bachelor's and Master's Thesis Award                                         | Bilbao, 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.
- Utilized advanced computer vision techniques and deep learning models to improve accuracy and performance.
- Developed the project using Python, leveraging libraries such as TensorFlow and OpenCV.
- Conducted extensive testing and validation to ensure robustness and reliability in various conditions.