

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 Mathematics - Undergraduated

Málaga, Spain

UNIVERSITY OF MÁLAGA

September 2019 - February 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 (Upper Intermediate)
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

EDUCATION

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