Juan Manuel García Delgado

COMPUTER SCIENCE · MATHEMATICS

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Education

VI 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 analysis, code-level examination, and detection techniques.

Bachelor's Degree in Mathematics *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 *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++
Others	Linux, Salesforce, Git, Bitbucket, Jira, Scripting, Bash, SCRUM, Docker, Kubernetes, Unit Testing, Cloud
Databases	Oracle SQL, MySQL, MariaDB
Languages	English *(Upper Intermediate)*, Spanish *(Native)*, Portuguese *(Intermediate)*, French *(Basic)*
Soft Skills	Problem Solving, Self-learning, Leadership, Critical Thinking, Team Collaboration

Work Experience

Tupl 🔗 *Málaga, Spain*
DATA ENGINEER *March 2025 - Present*
• Develop microservices to ensure cluster stability, focusing on alert management and system resilience.
• Deploy containers, services, and CronJobs in Kubernetes-based environments.
• Build and maintain data pipelines using Kafka, HBase, HDFS, and SFTP.
• Collaborate on continuous deployment and monitoring in distributed systems.

Freepik 🔗 *Málaga, Spain*
SALESFORCE DEVELOPER INTERNSHIP *June 2023 - March 2024*
• Full-stack development by creating Lightning Web Components
• Performed software development by creating Salesforce-Jira integration components for synchronization and comments via HTTP/webhooks.
• Implementation of methods to support the internal API, leveraging cloud-based solutions to optimize performance.
• 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.

Honors & Awards

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

Projects

Implementation of Artificial Intelligence Models for Optimizing Energy Self-Consumption and Minimizing Grid Discharges 🔗
BACHELOR'S THESIS IN COMPUTER SCIENCE
• 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.

Developed a GNOME Shell Extension | Open Source Contribution 🔗
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.

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*.