Juan Manuel García Delgado

Computer Science · Mathematics
45, Avenida Juan XXIII, Málaga, 29006, Spain
(+34) 615 01 11 13 | me@juanmagd.dev | www.juanmagd.dev | juanmagdev | juan-manuel-garcia-delgado

Education

VI Expert in Reverse Engineering and Malware Intelligence — *Málaga, Spain*
Google Safety Engineering Center (GSEC) — *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++
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*

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*.