

DIEGO RODRÍGUEZ TORRECILLA

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EDUCATION

King Juan Carlos University

Madrid, Spain

B.S. in Mathematics & B.S. in Computer Engineering

Sep. 2023 – Jun. 2028

- Mathematics average grade: 8.81/10 (as of Jun. 2026).
- Computer Engineering average grade: 8.82/10 (as of Jun. 2026).
- Honors in Artificial Intelligence, Design and Analysis of Algorithms, Distributed Systems, Declarative Programming, Algebraic Structures, Affine Geometry, Vector Analysis II, and Curves and Surfaces.

PROJECTS

Salary Prediction Model | *Python, Pandas, Scikit-learn, XGBoost*

GitHub

- Built an end-to-end machine learning project to predict annual salaries of Spanish workers using INE data, covering exploratory data analysis, feature engineering, model selection, and hyperparameter optimization.
- Compared performance of Linear Regression, Random Forest and XGBoost models.
- Achieved a mean absolute error (MAE) of €8.3k on the test set with an XGBoost tuned model, decreasing to €6.9k for the majority of the population.

MQM Marketplace | *Java, Spring Boot, MySQL, Docker, REST APIs, Microservices*

GitHub

- Collaborated on a Spring Boot marketplace application, developing secure REST APIs with Spring Security and persistent data storage with MySQL.
- Implemented product search and a recommendation algorithm based on seller ratings and distance, as well as Google Maps integration and a PDF invoice generation microservice.
- Containerized the application and its services with Docker and Docker Compose.

Minishell | *C, Unix, Linux*

GitHub

- Developed a Unix command-line interpreter in C replicating Bash functionality.
- Includes process management, background jobs, redirections, pipes, and signal handling.

MEC Scholarship Analysis | *Python, Pandas, Matplotlib*

GitHub

- Extracted, cleaned, and analyzed Spanish Ministry of Education scholarship records using Python and Pandas to inspect how are scholarships distributed.

CERTIFICATIONS

Machine Learning Specialization

May. 2025

Stanford University & DeepLearning.AI

Data Analyst in SQL and Python

Jul. 2025

DataCamp

Data Analyst in Power BI

Jul. 2025

DataCamp

CS50x: CS50's Introduction to Computer Science

Oct. 2021

HarvardX

TOEIC Listening & Reading – C1 (990/990)

Feb. 2025

Capman Testing Solutions

TECHNICAL SKILLS

Languages: Java, Python, C, C#, JavaScript, Scala, Prolog

Data: SQL, Pandas, NumPy, Matplotlib, Power BI

Frameworks: Spring Boot, React, Astro, Next.js

Tools: Git, Docker, Linux, LaTeX

Concepts: Object-Oriented Programming, Relational Databases, Data Structures, Algorithms, Linear Algebra, Probability, Calculus