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

Microsoft Certified: SQL AI Developer Associate (DP-800) — Sep. 2026
Microsoft

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