

David Muñoz

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EXPERIENCE

Data Analysis and Data Engineering (Python, pandas, PostgreSQL, predictive modeling, CI/CD, MLOps) Mar. 2026 – Jun. 2026
BHS Corrugated Spain, Production-oriented data analysis and machine learning workflows in an industrial environment Spain

- Extracted and structured industrial data from PostgreSQL with Python and pandas to support operational decision-making and downstream machine learning use cases.
- Designed and validated predictive features and models for industrial scenarios, connecting exploratory analysis with production-focused implementation.
- Expanded the role from data analysis toward data engineering by strengthening reliable data preparation and CI/CD-backed operational workflows.

EDUCATION

B.Eng. in Software Engineering — 7.88 / 10.00 (equivalent GPA: 3.15 / 4.00) 2022 – 2026
University of Malaga Malaga, Spain

- Relevant coursework: Algorithm Analysis and Design, Data Structures, Software Modeling, Design Patterns, Embedded Programming, Backend and Cloud Computing.

CERTIFICATIONS

Architecting Solutions on AWS — Coursera Jun. 2026

Credential Verification: [View Credential](#)

- Applied AWS architecture principles across scalability, security, reliability, IAM, and event-driven serverless systems.

PROJECTS

roma Final Year Project: metaheuristic optimization framework (Rust) – Honors, 9.9/10; zero-dependency design Jun. 2026

- Engineered a 100% Rust metaheuristic optimization framework with zero external dependencies, emphasizing reusable abstractions and efficient execution.
- Integrated single and multi-objective optimization in one library and benchmarked competitive runtime performance against *pagmo*.

Brain, Mental health data platform with AI search chat (Python, FastAPI, Oracle Autonomous Database) – Malackathon II Best Solution Oct. 2025

- Built and deployed the FastAPI backend for a mental health data platform backed by Oracle Autonomous Database, structuring disease, patient, and statistical data for dashboard consumption.
- Implemented the integration layer for an AI-assisted chat that enables targeted retrieval of specific clinical and analytical information.

Dr. Artificial, ChatBot-style medical assistant with RAG and memory (Python, embeddings, retrieval) – 4th Place Mar. 2025

- Developed core backend capabilities for a ChatBot-style medical assistant with RAG over patient information and persistent conversational memory.
- Grounded multi-turn responses in retrieved clinical context through embeddings and retrieval workflows exposed through a web frontend.

PokerHelper, Game Theory Optimal Texas Hold'em decision-support tool (Rust, computer vision, game-state) In Development

- Developing a Rust desktop assistant for Game Theory Optimal decision support in Texas Hold'em.
- Combines computer vision with game-state reconstruction to estimate strategically sound actions from live table context.

WikiMovies, Backend movie database API (Java, Spring Boot, REST API) Jun. 2025

- Designed a Java and Spring Boot REST API with layered architecture spanning routing, business logic, and persistence.
- Emphasized clean backend structure and maintainability through explicit separation of concerns.

VMware vSphere ESXi CLI Library, VM lifecycle automation toolkit (Bash, VMware ESXi CLI) Jun. 2025

- Built a Bash toolkit to provision, clone, and destroy virtual machines directly from the VMware ESXi CLI.
- Streamlined repetitive VM lifecycle operations through lightweight infrastructure automation.

SKILLS

- **Programming Languages:** Rust, Python, SQL, Java, Bash, C, C++, C#, Haskell
- **AI & Data:** pandas, embeddings, retrieval workflows, feature engineering, predictive modeling, PostgreSQL, data pipelines
- **Backend:** FastAPI, Spring Boot, REST APIs, Oracle Autonomous Database
- **Cloud & DevOps:** Git, GitHub, Linux, Docker, CI/CD, AWS (EC2, Lambda, IAM, S3, CloudFormation), OCI, Nginx
- **Frontend:** React, TypeScript, Vite, HTML, CSS
- **Speaks:** Spanish (Native), English (Professional), French (Elementary)