

Adriana Rupérez Arellano

Data Scientist and Engineer

Madrid, Spain (Open to remote work) | +34 717 71 56 24 | adriana.rupereza@gmail.com [LinkedIn](#) [GitHub](#)

EDUCATION

B.Sc. in Data Science and Engineering

Sep. 2022 – June 2026

University Carlos III of Madrid | Madrid, Spain

- Awarded UC3M's TFG Emprrende (**Entrepreneurship Distinction**) focused on innovation and entrepreneurship.
- Relevant coursework: Data Structures and Algorithms, Data Bases, Machine Learning I, II and Applications of Machine Learning. GPA: 8.74/10

International Mobility Program in Computer Science

Sep. 2024 – May 2025

Case Western Reserve University | Cleveland, USA

- Relevant coursework: Deep Generative Models, Data Mining for Big Data, Robotics, Computational Perception, and Bayesian Analysis. GPA: 3.876/4.

Technological High School

Sep. 2007 – Jun. 2022

School Miravalles-El Redín | Pamplona, Spain

- Final grade: 9.67/10. EVAU score: 13.401/14, among the highest grades in Navarre.
- Exchange year in Bayonne, France (2018–2019) and semester in Chicago, US (2016).

EXPERIENCE

Software Architect and AI Integration

Jan. 2026 – Jul. 2026

Ericsson | Madrid, Spain

- Developed internal data migration tools for telecom systems, supporting **ETL workflows** for subscriber data using Java, Python, Pentaho Data Integration, shell scripting and CI/CD pipelines.
- **Created AI-powered agents** by building **domain-specific knowledge bases** and integrating **automation** into development, testing, and documentation workflows.
- Improved reliability of migration processes by **designing and executing functional tests**, regression suites, test datasets, and simulated environments to validate data accuracy and integrity.

Freelance Mobile and Cloud Developer

Jan. 2026 – Jun. 2026

Milanes Transport | NEMT business in Florida, EEUU

- Designed and built the company's digital ecosystem for drivers and passengers, translating operational needs into internal and **customer-facing mobile products**.
- Developed and published an internal driver and a passenger **mobile application** to the iOS and Android stores, and deployed the supporting **cloud infrastructure and backend services**.

Data and Client Operations and Automation Support

Jun. 2023 – May 2026

Practice C.V.M. | Family real estate business

- **Captured clients** through property portals, showed rooms, and **closed 20+ room rental contracts**.
- Built a **CRM and admin web platform** with React and Supabase for property, tenant, and contract management.
- **Automated** contract generation, expiration alerts, and document workflows, including a **local AI-assisted leasing process**.

Ski and Leisure Instructor

Dec. 2019 – Apr. 2024

Club Pirineista Mayencos and Ski Club Noroeste | Spain

- Delivered **adaptive lessons** for different ages and skill levels, including beginners and students with **special needs**.
- **Led groups of up to 10 participants** and coordinated with other instructors in inclusive learning environments.

PROJECTS AND LEADERSHIP

Vision-Language Model for Chest X-Ray Reports Academic project

Computer Vision and Medical AI

- Built an **attention-based encoder-decoder model** to generate radiology reports from chest X-ray images using **DenseNet121, GRU and Bahdanau attention**.
- Processed OpenI/NLMCXR image-report pairs and evaluated results with **BLEU, ROUGE and METEOR** metrics.

Founder and Developer, CampusRide Ongoing

Independent project

- **Founded and developed** a ridesharing mobile application for the UC3M community, building it **end-to-end** with Flutter, Firebase and **Google Cloud Platform**.
- **Built and coordinated** a small team of 4 to support ongoing product development, content creation, university relations, and day-to-day app operations, fostering **ownership and execution standards** across the project.
- Application available on iOS and Android stores and used by **almost 350 students**.

AI/ML Developer September 2025 – January 2026

Curricular project with Sandoz and Universidad Carlos III de Madrid

- **Built a RAG-based assistant** to turn a **large unstructured document base** into an internal query tool for employees.
- Worked on **ingestion, retrieval, topic-based routing, and OCR** in Python across **local and cloud-based setups**.

University Associations Sep. 2024 – May 2026

Open UC3M (UC3M) and Coding Club (CWRU)

- **Full Stack Developer**, Open UC3M (Sep. 2025 – May 2026): built a university social network mobile application using React Native, Django, and Render.
- **Member, Coding Club** (Sep. 2024 – Apr. 2025): developed a university marketplace app using React Native and Supabase.

TECHNICAL SKILLS

Backend & Frontend: Python, TypeScript, FastAPI, Django, Node.js, React Native, Flutter/Dart
AI & Data Science: Kiro CLI, RAG, NLP, LLMs, OCR, PyTorch, TensorFlow, Transformers, Scikit-learn, RStan
Data Engineering & Databases: SQL, NoSQL, MongoDB, Supabase, Firebase, Pentaho PDI
Cloud, DevOps & Tools: Docker, GitHub/GitLab CI/CD, Google Cloud Platform, Azure, Render, Jupyter, n8n, Agile

LANGUAGES

Spanish: Native **English:** Full professional proficiency (C1) **French:** Full professional proficiency (C1)

CERTIFICATIONS

- CAE C1 Advanced (Cambridge University)
- DALF C1 (France Éducation Internationale)
- Level 1 Sports Technician (Tandem)
- Diplôme National du Brevet (Ministère de l'Éducation Nationale Française)