

MARIO MOJARRO RUIZ

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EDUCATION

University College London (UCL)

Expected Jun 2027

BSc Computer Science – Intelligent Systems IEP. **1st Class Honours-level marks** in Years 1 and 2.

Centro Docente María, Spain

Spanish Baccalaureate: **9.95/10**, highest-ranked student (**Matrícula de Honor**). Spanish university entrance exam (PAU): **13.75/14**, top **0.5%** of 340,000 candidates.

WORK EXPERIENCE

Founding Software Engineer – FutureLabs

Sep 2025 – Present

London, UK | Client: The Fore

- Developed **Salesforce Flow and Make.com automations** for volunteer–charity matching, using skills and preferences to connect volunteers with relevant opportunities and synchronise CRM data, feedback and follow-ups.
- Built personalised newsletter and outreach workflows for an audience of **1,000+ volunteers**, incorporating **AI-generated opportunity descriptions** and reducing manual coordination.

Backend Developer Intern – Magnific

Jun 2025

Málaga, Spain

- Developed modular **PHP backend components** and server-side application logic, working with version control and structured software development practices.

Frontend Developer Intern – Tier 1 Technology S.A.

Dec 2024

Seville, Spain

- Implemented **frontend layout and dynamic-content updates** in an existing product, aligning its interface with client branding and design requirements.

ENGINEERING PROJECTS

AppAttendance – Lead Full-Stack Developer

Present

Workforce attendance product | In collaboration with Approx Iberia & Distribuciones Mylar S.A.U. | Pre-launch

- Independently built a **multi-company attendance platform** spanning desktop and Android mobile applications, a **Node.js** backend and **MariaDB**, with role-based access, employee management and scheduling.
- Integrated **physical attendance terminals** using a vendor SDK and a **C#/.NET bridge**, synchronising employee identities and clock-in/clock-out records with the application database.
- Implemented **offline mobile check-ins with later synchronisation**, GPS tracking and local recovery storage; supported split shifts, missing exits and overtime calculations.
- Developed monitoring dashboards, attendance analytics and **PDF/Excel reporting**; prepared deployment scripts and technician documentation for real-environment testing ahead of launch.

ENGINEERING PROJECTS (CONTINUED)

SYCRA – Technical Co-Founder

2026

Near-real-time AI call intelligence and CRM automation platform

- Led the **end-to-end technical architecture and full-stack implementation** of a platform that processes live-call audio, generates transcripts, extracts customer information and automates CRM updates.
- Designed **asynchronous processing pipelines** using **FastAPI, Redis, PostgreSQL and MinIO** to coordinate audio jobs, persistent call sessions, transcripts and structured outputs.
- Built **GPU-accelerated speech-to-text** with Distil-Whisper, overlapping audio segmentation, voice activity detection and concurrent processing to support near-real-time transcription.
- Integrated **spaCy and LLMs** for entity extraction and follow-up actions; containerised services with **Docker** and implemented testing/CI workflows with **Pytest and GitHub Actions**.

Prompt Injection Protection – UCL IXN x Avanade

2025 – 2026

Full-stack LLM security testing and prompt-injection evaluation framework

- Co-developed a **React/TypeScript and FastAPI** framework for evaluating LLM applications against prompt-injection attacks, contributing to both interactive testing workflows and backend application logic.
- Implemented standardised and custom adversarial testing flows to inspect model behaviour and compare mitigation approaches; the platform also supports **Garak-based scanning**.
- Delivered a framework **used internally by Avanade**; the team also presented the work to the **Microsoft Foundry Community** in a technical webinar.

ADDITIONAL PROJECTS

EduSearch – Full-Stack Web Application

University project

- Built a **Django REST Framework and React** application with **JWT authentication**, APIs for posts, topics, ratings and comments, input validation, and unit/integration tests.

SightHearing – Location-Aware Audio Navigation

24-hour hackathon

- Co-built a working prototype using **TypeScript**, the **Google Maps API** and the **OpenAI API** to generate route-aware place discovery and contextual audio storytelling.

TECHNICAL SKILLS

Programming:	Python, TypeScript, JavaScript, Java, SQL, PHP, C, C#
Backend:	FastAPI, Node.js, Django REST Framework, REST APIs, Spring Boot
Frontend & Apps:	React, HTML, CSS, Vite, Electron, Capacitor
Data & Storage:	PostgreSQL, MariaDB, SQLite, Redis, MinIO
DevOps / Testing:	Docker, Git/GitHub, GitHub Actions, Pytest, PowerShell
AI / Automation:	Distil-Whisper, spaCy, LLM integrations, Salesforce Flow, Make.com