

Fran Cortés

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Experience

AI Researcher Engineer Visitor

IBM

Dublin, Ireland

05/2025 – 08/2025

- Contributed to academic research and the development of a [red teaming](#) system targeting [LLMs](#), focusing on identifying vulnerabilities and evaluating model robustness.

AI | Cybersecurity Researcher

[Universidad de Murcia](#)

Murcia, Spain

10/2024 - Current

- AI Researcher Engineer focused on [Federated Learning](#) and [Cybersecurity](#) applied to IoT, leveraging [Large Language Models](#) and advanced [AI](#) techniques for vulnerability identification and [penetration testing](#).
- Contributed to [academic research](#) and the development of secure, privacy-preserving machine learning systems in collaboration with interdisciplinary teams, under the supervision of Prof. Antonio Skármeta and Prof. José Luis Hernández Ramos.

Specialist Software Engineer

[Vodafone](#)

Málaga, Spain

09/2023 – 10/2024

- Developed microservices using [Java Spring Boot](#), [MongoDB](#), [Apache Kafka](#) and [Docker](#), while adhering to [agile](#) methodologies and industry best practices while deploying new features into production.
- Led the technical [hiring](#) process for new graduate engineers, including designing technical scenarios and interview questions.
- [Mentored](#) our internship engineers to create a final project, simplify the DB budget management process across portfolios using power app while building a [chatbot](#) as an extension.
- Proposed and designed using [figma](#) a frontend application to track our service orders and help to clarify our demos.

Deep Learning Engineer Lead

[Bemyvega](#)

Murcia, Spain

12/2022 - 05/2023

- Led the [AI](#) team in developing [real-time transcription](#) systems using [NLP](#) and [deep learning](#) techniques, including [LLMs](#). Analyzed and selected appropriate models for each use case, resulting in high-quality transcriptions.

AI Software Engineer | CEO CO-Founder

[MiSintaxis](#)

Murcia, Spain

09/2019 - 09/2023

- Led the creation, design, [development](#) and [strategy](#) of the [number one app](#) in the world of syntax teaching, with more than [85,000 downloads](#) all around the world
- Applied [Natural Language Processing](#) techniques for Spanish language processing. Conducted [fine-tuning](#) of the Bloom and GPT2 model on the Ancora corpus, resulting in impressive F1 metrics for Spanish [constituency parsing](#). Using [Hugging Face](#), [PyTorch](#), [Python](#) and [AWS](#) to deploy it. Design and implement an architecture based on [AWS](#) services.
- Designed and implemented scalable [APIs](#) and background workers to develop this mobile app.
- Used android studio with [Java](#) and [XML](#) at first and then led the migration to flutter in order to create a multiplatform app.
- [Recruited](#) 1 designer, 3 software engineers.
- Used the [lean](#) methodology to create a minimum viable product and implemented the [agile](#) methodology with SCRUM using Jira.
- Managed the business side, including legal issues, branding, recruiting, fundraising, external communications and networking.

Projects

- [Movie Recommendation System](#): Created with my colleague a hybrid system using [content-based](#), [collaborative-based](#) and [Knowledge-based filtering](#) using [Java](#) ([Github Link](#)) (2/2022)
- [TURBINE](#): Before going to college, I created a 3D mobile video game for [Android](#) using [Unity 3D](#) with [C#](#) and [Blender](#). The game was available in the play store for free. Link to [YouTube](#) Gameplay (07/2018)
- [ANALIZANDO](#): Created a syntax teaching app in high school at the age of 15 in order to help students prepare for exams. Used [Android Studio](#) and developed it with [Java](#) and [XML](#). The app was available in the Play Store, and it had more than 30,000 downloads (09/2016)

Education

Bachelor of Computer Engineering with Honors

[Universidad de Murcia](#)

Murcia, Spain

09/2019 - 07/2023

- Major in Computer Engineering. GPA of 8.6, this is in the top 1% of the university.

Erasmus-Computer Engineering

[Politechnika Wrocławska](#)

Wroclaw, Poland

09/2021 - 02/2022

- Major in Computer Engineering. Studied abroad in Poland for one semester. All classes were in English.

Skills

- Natural Language Processing | Deep Learning | Hugging Face | PyTorch | Python
- Java Spring Boot | Docker | JavaScript | HTML | CSS | C++ | C | MongoDB | MySQL | AWS | Git | SCRUM | Unit Testing | Cucumber | BDD
- Management | Microservices | Artificial Intelligence | Full-Stack
- English, Spanish, French – All professional proficiency or above

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Awards

- **Extraordinary Final Degree Project Award:** Receive recognition for my final project. Applied [Natural Language Processing](#) techniques for Spanish language processing. Conducted [fine-tuning](#) of different [LLMs](#). Design and implement an architecture based on [AWS](#) services.
- **Extraordinary High School Award:** Received a recognition for passing every subject of my final year of [high school with Honors](#)
- **First place in multiple** [startup competitions](#) and [regional contests](#) with my startup, [MiSyntaxis](#).
- **Awarded scholarships** to take courses in [business administration](#) and [management](#).

Others

- [Volunteered](#) as a mentor for international students in my city.
- Performed Tech [Talks](#) in different universities and in different high schools.