

# Fran Cortés

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## Experience

### AI Researcher Visitor

Cambridge Uni (CaMLSys)

Cambridge, UK

09/2025 – 09/2025

- Academic research in [agentic red teaming](#), targeting [LLMs](#), focused on identifying vulnerabilities and evaluating model robustness, collaborating with Nic Lane's group (CaMLSys Lab, University of Cambridge); collaboration ongoing.

### 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; collaboration ongoing.

### 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

### Master's Degree in Artificial Intelligence

Universidad de Murcia

Murcia, Spain

09/2025 - 07/2026

- Master's degree in artificial intelligence.

### 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.

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## Research

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- **Cortés-Delgado, F. J.**, Mármol Campos, E., Hernández-Ramos, J. L., Skarmeta, A., Latif, S., Djenouri, D., Krenn, S., Puiu, A., & Vizitiu, A. (2025). *Enhancing security and privacy in federated learning for distributed systems: The REMINDER approach*. In *Proceedings of the Global IoT and Edge Computing Summit (GIECS 2025)*. Springer. Accepted, forthcoming.

## Skills

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- 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

## Awards

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- **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, MiSintaxis.
- **Awarded scholarships** to take courses in business administration and management.

## Others

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