

# Fran Cortés

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## Experience

### Deep Learning Engineer

Bemyvega

Murcia, Spain

12/2022 - 05/2023

- Led the AI team in developing **real-time transcription** systems using **NLP** and **deep learning** techniques, including **LLM** models. 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 - Current

- Led the creation, design, **development** and **strategy** of the number one app in the world of syntax teaching, with more than **72,000 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.
- Created the first prototype on my own, then met my co-founder and CTO. Together we **developed** the first final version of the app.
- **Recruited** 1 designer, 2 more software engineers.
- Implemented **backend** with firebase
- 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 is 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 is available in [the Play Store](#), and it currently has more than 30,000 downloads (09/2016)

## Education

### Bachelor of Computer Engineering

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 Wroclawska

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
- Java | Python | JavaScript | HTML | CSS | C++ | C | MongoDB | MySQL | AWS | GitFlow | Jira | SCRUM | Firebase | Unit Testing | Unity 3D
- Management | Microservices | Artificial Intelligence | Full-Stack
- English, Spanish, French – All professional proficiency or above

## 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, **MiSintaxis**.
- **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.
- \* **Collaborated** on local radios and other local news.