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# ALEJANDRO JOSÉ CORTÉS

- Marital Status: Single
- Nationality: Honduran
- Date of Birth: December 7, 1995
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## Work Experience

May 2017 - July 2017

### **AKU Advance - Lear Corporation**

Advance Key User. ERP software technical support at Lear Corporation.

July 2017 - Dec 2017

### **Professional Practice - Falcon Ingeniería**

Development of a monitoring system through a Scada in Honducafe. Duration of 6 months

Feb 2018 - Sept 2021

### **Project Engineer - Ingea**

- PLC control panel migration of a critical cement blocker production line in Conhsa. 3 months.
- Developed and programed a PLC for a clothing fabric machine, with its mechanical installation, to improve production time in Gildan.
- Installation of several electrical metering devices in numerous companies, with the Schneider software PME (Power Monitoring Expert) to visualize graphs and recolect data.

July 2022 - August 2022

### **IBM Internship - DTT (Data Transformation Team) : Data Engineer Intern**

- McDonald's Project focusing on creating Indicators and Tags of customer's behaviors to employ better marketing techniques.
- Created Configuration File with Source Group of specific tables to run Redshift's store procedures (to update Indicators/Tags)
- Created Lambda python script "Execute SQL Script", to run Glue Jobs of each group batch calling the specific source groups.
- Worked on the Redshift SQL queries, creating the specific store procedures which make the indicators/tags needed. These queries would be run periodically through Lambda/Glue.

August 2023 - Present

### **English Teacher**

English teacher at cram schools.

## Education

2001 - 2013

### Bachelor of Science and Literature

Escuela e Instituto Bilingue Valle de Sula

2014 - 2016

### Intern of Computer Systems Engineering

Universidad Tecnológica Centroamericana UNITEC San Pedro Sula

Completed 2 years

2013 - 2018

### Graduated in Mechatronics Engineering

Universidad Tecnológica Centroamericana UNITEC San Pedro Sula

Graduated Magna Cum Laude

2021 - 2023

### Master in Information Systems and Applications

National Tsing Hua University

GPA: **4.27**. Graduated with A/A+ in all courses. Vision of becoming a Data Scientist.

## Programming

- **Deep learning:** CNN, LSTM, Autoencoder, Random Forest, Densenet, Deep Neural Networks, and similar AI Regression and Classification models.
- **Tensorflow** 2.0, pandas, scikit-learn, seaborn.
- **Data Handling:** Preprocessing data, data cleansing, data analysis.
- **ReactJS** front-end development
- Some experience on **AWS:** S3, Lambda, Glue, Cloudwatch, Redshift
- **Spatial and Graph Database** Experience: PostgreSQL and Neo4j
- Matlab experience + **EEGLAB** for Brain Wave Analysis and Cleaning

## Language

- Spanish: Native Speaker
- English: Fluent
- Italian: Studied 1 year

## Industrial Automation

- **PLC** (Programmable Logic Controller): RSLogix500, Factory Talk View Studio, Schneider PLCs
- **Electrical Metering:** PME (Power Monitoring Expert).
- SolidWorks 2016

## Links

- <https://alexcortescv.web.app/>
- <https://github.com/alexcortes18>
- <https://www.linkedin.com/in/alejandro-izaguirre-225b42157/>
- <https://www.cake.me/me/alexcortes>