

# JOSÉ ALBERTO LÓPEZ LÓPEZ

BACHELORS IN PHYSICS  
MASTERS IN ARTIFICIAL INTELLIGENCE

✉ JLL.6@hotmail.com

## ABOUT ME

Artificial Intelligence developer with experience in various languages and frameworks. I have worked in big data projects with real time transmission technologies and several data science projects as well. I consider myself a dedicated, responsable, and very capable person, with the ability of quickly learn new things.

## EXPERIENCE



### Artificial Intelligence Developer

GRUPO SALINAS · Ciudad de México, Mexico · 2021

Big data AI developer in projects related to bank credit fraud prevention using tools like Spark, Hadoop, Kafka, among others.



### Data Scientist

MIGALA · Ciudad de México, Mexico · 2021  
Data analysis of an inquest realized to potential members of a new political party.  
Foundations of a Blockchain project with Solidity and other components.



### Data Scientist

BEST PRACTICES CONSULTANT · Querétaro, Mexico · 2020  
Data visualizations designer with Power BI for several companies projects, including a real time dashboard with information about gas distribution routes.



### Algorithms and Prototypes Developer

ARTIFICIAL INTELLIGENCE RESEARCH CENTER · University of Veracruz, Mexico · 2018  
C++ developer of an autonomous movement vehicle detection algorithm, designed for an embedded system, using accelerometers and Furier analisis.

## PROGRAMMING LANGUAGES

	Junior	Senior
Python		
C++		
SQL		
Java		
Solidity		
HTML, CSS		
Javascript		
Others		



## FRAMEWORKS & SYSTEMS

Spark	
MongoDB	
Kafka	
Hadoop	
Git	
Docker	
Kubernetes	

## COMPLEMENTARY EXPERIENCE

- Experience in Keras and TensorFlow for deep learning and machine learning.
- Knowledge of dense, convolutional, and recurrent neural networks; as well as evolutionary and nature-inspired algorithms.
- Computer vision with OpenCV library in C++ and Python.
- Experience in parallel programming with OpenMP and MPI libraries in C and C++.
- Experience working with data science applied to geographical and cities databases.
- Large experience in data visualization with Matplotlib, Gnuplot, TikZ-PGF and Power BI.
- Mathematical foundations of models for time series analysis, like ARIMA, SARIMA, VARMA, Dickey-Fuller test, Granger causality, Holt-Winters method, EWMA, ETS, Hodrick-Prescott filter, etc.
- Robotic Operative System (ROS) with C++ and Python.










## EDUCATION

- 2020 **Masters in artificial intelligence**  
ARTIFICIAL INTELLIGENCE RESEARCH CENTER  
· University of Veracruz, Mexico 
- 2018 **Bachelors in physics**  
FACULTY OF PHYSICS · University of Veracruz,  
Mexico   
Best marks of generation.

## LANGUAGES

**Spanish** Native

## COURSES

Institute	Subject	ID and URL
Udemy	Docker & Kubernetes	
MongoDB Academy	MongoDB	  
Udemy	Time Series Data Analysis	
Udemy	Git	
Udemy	SQL: Basic to Advanced	
SoloLearn	SQL	
SoloLearn	Java	

## PROJECTS

### Robot Hostess

I programmed the entire code of a Robot hostess in C++ with ROS. The robot detects diners via face recognition and lead them to a suitable table.

### Augmented reality

Example of augmented reality made with Python and OpenCV.

### Traveling salesman problem visualization

Visualization of traveling salesman problem solved with simulated annealing.

### Grasp Objects in Clutter (Masters Thesis)

I developed an algorithm for accommodate objects in order to facilitating later grasps by applying AI nature inspired algorithms.

## CONTACT

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🌐 [Alberto López](#)

## REFERENCES

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### **Marxlenin Zapata Yañez**

Chief of Reactor Engineering department at Laguna Verde Nuclear Power Plant.

Relation: Previous boss.

✉ marxlenin.zapata@cfe.gob.mx

### **Irving Morales Agiss, PhD**

Director of data science MORLANmx enterprise.

Relation: Professor.

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### **Antonio Marín Hernández, PhD**

Researcher at the Artificial Intelligence Research Center of University of Veracruz, Mexico.

Relation: Thesis assesor.

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