

# ALBERTO ESPINOSA-JUAREZ

Cuauhtemoc, Mexico City, Mexico.

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## WEBSITES, PORTFOLIOS, PROFILES

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- [linkedin.com/in/albertoespinosaj/](https://www.linkedin.com/in/albertoespinosaj/)

## PROFESSIONAL SUMMARY

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Computer science Master's graduate specializing in Computer Vision and Feature Engineering, equipped with a strong academic foundation and hands-on experience in developing cutting-edge technologies, particularly deep learning models, for image and video analysis. Proven expertise in developing robust algorithms for feature extraction as well as object classification and detection. Possess a problem-solving mindset and a keen interest in applying theoretical knowledge to address real-world business challenges. Eager to leverage my skills in a dynamic company, with a commitment to continuous learning and staying abreast of the latest advancements in the rapidly evolving field of computer science.

## SKILLS

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- Agile Development Methodologies
- Software Development
- Problem-Solving
- Innovative
- Neural Networks
- Keras Library
- Computer Vision
- Feature Engineering
- Data Visualization
- TensorFlow Framework
- Deep Learning
- Data Acquisitions

## WORK EXPERIENCE

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### Software Developer

GPIC – Mexico City, MX.

- I developed a face-based attendance checker that culminated in the writing of a scientific paper as well as the creation of a data set.
- A convolutional neural network type model was used, as well as a k-nearest neighbors model.

### Conference Room Moderator

The Mexican Society For Artificial Intelligence – Jalisco, Mexico

- I was in charge of moderating the machine learning room where papers related to the topic were presented.
- I was part of the organizing committee of the Mexican congress of artificial intelligence, 2022 edition.

### Thesis Director

UACJ – Chihuahua, MX.

- I supervised the thesis of a software engineering student at the Universidad Autonoma de Ciudad Juarez.
- Developed a real-time system utilizing YOLO models to detect personal protective equipment in video and static images. This system effectively identifies and monitors the usage of personal protective equipment, showcasing proficiency in computer vision and machine learning techniques.

- Monitored and coordinated workflows to optimize resources.

## EDUCATION

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10/2023

### **Master of Science: Computer Sciences**

**Centro De Investigación En Computación** - Mexico City, Mexico.

- Graduated cum laude.
- Thesis Paper: Human emotion classification using convolutional neural networks.
- Face classification with Hebbian learning for small databases, Research in Computing Science - Research Project.
- Face classification with Hebbian learning for small databases, Research in Computing Science - Research Project.
- Design of a soft mood sensor for food recommendation using Deep Learning, Research in Computing Science - Research Project.

Expected in 02/2024 **No Degree: English Studies Program**

**EF Education First** - Vancouver, BC, CA.

- English level: B2 upper.

08/2020

### **B.Eng.: Computer Science**

**ESIME Unidad Culhuacan** - Mexico City, MX.

- Thesis Paper: Real-time classifier of anemic gestures using Deep Learning to support the teacher, through a web platform.

## LANGUAGES

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### **English**


  
 Professional Working

### **Spanish**


  
 Native or Bilingual

## CERTIFICATIONS

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- Course, Mathematics for Machine Learning - Actumlogos, 2022, Mexico City, Mexico.
- Certificate, Neurobiology of human behavior - Instituto CUM Laude, 2022, Mexico City, Mexico.
- Course, Deep Learning for Image Processing, Universidad de Alcalá, 2022, Madrid, Spain.
- Course, Vision Artificial - Dive in Learning, 2021, Mexico City, Mexico.