

Education

Deep Learning Specialization

May - Present

Taking a Deep Learning Specialization Professional Certificate program given by Andrew Ng Ph.D. Stanford.

Full Stack Developer with JavaScript

August - Present

Taking a Full Stack Professional Certificate program given by Platzi.

Tecnológico de Monterrey, Querétaro, México

January 2019 – December 2022

BSc. Mechatronics Engineering (Mechatronics engineering technologists use a combination of mechanical, electrical, computer and software skills to work with smart technologies).

GPA: 3.7

Yonsei University, Seoul, Korea

August 2018 – December 2018

International Fall Semester (Exchange semester)

Courses:

- Biological Wastewater Treatment
- Construction Automation And Sensing Technologies
- Construction Economic Feasibility

The University of British Columbia, Vancouver, BC, Canada

June 2018 – July 2018

UBC Summer International (Summer school)

Courses:

- Value Chain
- Business Management

Working Experience

Intern Research at Harvard Medical School/FNNDSC

February 2022 – Present

Research internship in FNNSCD focused on acquisition, preprocessing, and analysis of electrophysiological (MEG/EEG) and MRI data from patients with epilepsy and typically developing control participants. My role at the FNNDSC is to contribute to the development and improvement of an algorithm for data analysis and deep learning network training used to give a better treatment for children with epilepsy.

August 2021 – February 2022

Research internship in Shin Lab focused on robotics applied to bioengineering and tissue engineering. I worked on designing, testing, and automating 3D printing medical devices (Microfluidics) using mainly MATLAB/Python and Formlabs 3D printers.

IT Leader at Artezzanos, Morelia, México

January 2021 – May 2021

A startup that helps the greatest artisans of Mexico by enriching them and guide them to take them out of poverty. My job is to coordinate the Software Team with the Customer Developer team, and to develop the software. We had more than 200 artists in our network.

Open-source: <https://github.com/itsluismario/Artezzanos>

Co-founder at Roof, Morelia, México

December 2019 – April 2021

A startup that links construction suppliers with builders. I guided a team, so we could iterate and learn 10X faster than the competitors. We built our first MVP 18X faster (30 days) than the competitors (545 days). We used the lean start up methodology to skyrocket our learning/creation/iteration cycle.

Civil Engineer Intern at El Aguila, Morelia, México

September 2014 – May 2018

A construction company that develops all types of construction. I worked on Purchase, Logistics, and Interior Design Departments. I increased the savings on the purchasing by 20% by negotiating with suppliers.

Mechanical Engineer Intern at Monarch-e, Morelia, México

August 2012 – May 2013

I worked on the Design and Mechanical Department of the robot which competed in the Regional FIRST Robotics Competition, in Houston, Texas, USA, and in the International FIRST Robotics Competition, in Saint Louis, Missouri, USA. Regional and International winner at the category "Rookie All-Star" in 2013. My responsibility consisted on designing and testing the mechanical parts of the robot.

Community Engagement

Volunteer at Greenpeace, Morelia, México

November 2020 – June 2022

I am the current coordinator of Greenpeace Morelia. My job is to organize activities, collect signatures that are aligned with the goals of Greenpeace and our volunteers, and give speeches to elementary and junior schools about climate change. We achieved the ban of the plastic bag in Michoacán, México.

Acrovisión (una nueva vista para la diabetes)

August 2017 – June 2018

I led groups of professional medics that want to have a social impact. We went to underserved communities and evaluated people's visual health. The objective was to expand the reach of preventive medicine to decrease chances of eye disease for people that cannot normally access preventive medicine.

Skills

Creativity

Problem Solving

Teamwork

Communication

Active Listening

Adaptability

Resilience

Proactive

IT skills e.g.

Next.js / React

Django

TypeScript

Python

(NumPy & Pandas SQL,

BeautifulSoup

Scikit-learn

EDA, Matplotlib, and Seaborn

Jupyter & Notebook)

Git/Github

D3

C++

HTML and CSS

Unix/Linux environments

Google Analytics

Matlab

LabView

Languages

Spanish (Native)

English (Full Professional Proficiency)

French (Limited Proficiency)