Frans Ramirez Neyra

Mechatronic and Software Engineer

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Experience

08/20 - present Fullstack Software Engineer — **Modus Create**

Digital consulting company that works with several partners, providing them digital transformation.

- Working with Charlice and AWS SDK on AWS to built serverless backend and infrastructure in order to create cloud-based web development platform.

09/19 - 03/20 Fullstack Software Engineer — **Chiper**

Retail company that connect shop owners directly with manufacturers and shorten the distribution channel.

- Develop Retail Management System using Loopback JS, React Js and MySQL in order to manage Inventory for warehouses, products management and ordering system.

- Develop Operational System using Loopback JS, React JS and MySQL in order to handle internal processes like Piking, select and package products process, Orders Consolidation and Routes and Reception process.

- Create Bills Payment Transactional System for POS using Koa Js, Objection, Postgress. INtegrate multiple payment services and services providers.

03/19 - 09/19 Fullstack Software Engineer — **Credijusto**

Fintech company that offers financial products using technologies to improve time response, amounts estimations and clients capabilities.

- Using IaC to automatically generate enviroments by PR for our projects.

- Add features to Loany an amortization calculator for our financial products that replace normal spreadsheets use by an economist. Made in python with Django framework.

- Update React components used in our applications in order to be used by dash framework in python.

- Working with OroCRM and symfony to make a custom CRM for internal processes and business requirements in PHP.

06/18 - Present Manager & ML Developer — **Nure**

Reverse Image Search Engine Development based on a Deep Neuronal Network (VGG-16 & RESNET) characteristics extraction. Then Vectorizing results and indexing them on Elastic Search to make search fast. I dockerize solution with Nvidia runtime and docker orchestration for autoscaling.

09/18 - 02/19 Fullstack Software Engineer — **NDS Cognitive Labs**

A company that helps companies in their process of digital transformation with cognitive computing solutions.

- Develop a time series sells forecast. It was used to Predict and anticipate sells integrated to a SugarCRM in order to ganerate sells opportunities. Languages used Python and PHP.

03/17 - 09/18 Software Engineer — **Connus International**

A company dedicated to the automation, integration and innovation of services, and technologies oriented to the private security sector.

- Integration of an LPR software solution using C++, training OpenALPR for Mexican plates. The software is working now in all crossings between Mexico and the USA
- Implementation on Python of the AWS face recognition software as a solution for security on communication towers.
- Development of a platform for IoT monitoring using MERN technology. Which works together with an ARM embedded system where python software deploys solutions as face recognition, video surveillance, infrastructure monitoring, and sensor communication.
- Improving prototypes to production development using Docker Staks and Swarms to achieve a better performance and longtime maintenance.
- Improving ARM based devices to make them robust solutions implementing Debugging, Logging and Stress tests.
- Adaptation of ML technologies (Detectron, Fast-RCNN, YOLO) with Tensor Flow and Caffe for Object Detection and data harvest and characteristics extraction.

05/10 - 09/16 **Research Intern** **McGill University**

I Worked with Graduate and Postgraduate students on investigation projects

- Electronic and mechanical design of drones with Control Engineering implementation.
- Automatic Maneuvers for Fixed Wings Airplanes research.

09/16 - 12/16 **Project Investigator** **ITESM**

Investigation in FPGA systems developing digital filters IIR or FIR and controllers. Contrasting and evaluating performance in analogic and digital filters and controllers

Education

2012 - 2016 **Bachelor's Degree in Mechatronic Engineering** **ITESM**
Mechatronic Engineering

2004, 2009 **Technical Degree in Informatics** **CEO Manuel T. & Universidad de Ica**
Wireless Connections and Internet Infrastructure

Projects

- Leaf recognition using CNN based on RetinaNet || Time: 3 months
- Design and construction of a scaled airplane, Aero Design SAE || Time: 6 months
- Robot construction for FIRST Robotic Competition || Time: 3 Years
- Development of a line following by camera car for FreeScale Cup || Time: 2 Years
- Investigation in XO computer complement development. || Time: 1 Year

Honors & Awards

12/2016 **Doble Golden Lamb Award** **Career Activities**
Awarded by enthusiastic participations on extracurricular activities along the Career

12/2016 **Excellence Award** **Mechatronic Engineer**
GPA 3.85