






Jose Manuel Calva Hernandez

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Education

GRADUATING IN DECEMBER 2021

GPA 93/100

Escuela Superior de Cómputo - Instituto Politécnico Nacional Bachelor of Engineering in Computational Systems

Attending to the ACM Student Chapter (also known as "Club de Algoritmia")
Top ranked student for 7 consecutive semesters.

Politecnico di Milano – Campus Milano Leonardo Computer Science and Engineering

Exchange program Spring 2020, topics related to Machine Learning.

Major Projects

Auxiliary system for the elaboration of study programs

WINTER 2018

(Academic Program Management System as intern project name)

Auxiliary system for the creation and management of the learning units at my university.

- Designed and developed as RESTful service ([backend](#) / [frontend](#));
- Worked as a simulation of real project in collaboration with 24 teammates, our professor and a real client;
- In charge of a group of two persons in the backend operations related to the database (PostgreSQL);
- Also, worked with the rest of the backend, analysis and communication with the client;
- Built with Angular & Spring-Boot, documented with LaTeX and tested with Selenium.

IPN-Awards

WINTER 2018

System developed to manage the organization, execution and generate statistics of an award event for the IPN.

- Developed in PHP for the backend and JavaScript (with jQuery and CSS) for the frontend;
- Simple CRUD for users and assistants, but also designed to interact with emails, messages and notifications;
- Integrated with a QR reader library for instant check of the assistants;
- Generation of awards and invitations in pdf from a template;
- Project Manager of a team of 5, focused in all the backend and important features in the frontend.

Webelectivo

SPRING 2018

A webpage for manage the elective hours (ex: cultural, sport, recreation) of the students.

- Designed and developed in PHP with all the steps for a project like requirements, process, diagrams, etc.;
- A web portal multiplatform like computer, smartphone and tablets;
- With a previous free template, used reverse engineering for adapt it to the project;
- Project Manager most in charge of the adaptative of the page, analysis and design of the system.

Skills

PROGRAMMING LANGUAGES

- 3 years: C/C++
- 2 years: Java, JavaScript
- 1 year: PHP, Python
- 6 months: R

RDBMS

- MySQL (2.5 year)
- PostgreSQL (1 year)
- MongoDB (6 months)

TECHNOLOGIES

HTML, CSS, Git, Unix/Bash, JQuery, Ajax, Spring Boot, LaTeX, node.js, socket.io, Typescript, ReactJS, Gulp

PLATFORMS

- Windows (user)
- Linux (user)





COURSES

- 2nd School of Algorithms and Data Structures (CIMAT, September 2019)
- Data Science by Harvard (edX, in progress)

LANGUAGES

- Spanish (native)
- English (fluent – TOEFL ITP 570)
- Italian (basic – PLIIDA B1)

Leadership and Awards

- Co-Founder and Leader of "Proyecto Nutria": focused in growing Mexican's community at big tech companies 
- Speaker at 2nd edition of #GirlsChallenge – RAPC, August 2020 
- 16th place, of 53 teams, "Regional ICPC 2019 – Mexico" – ICPC, team "404.Globito Not Found", November 2019 
- 21st place, of 375 teams, "Gran Premio de México" – ICPC, team "404.Globito Not Found", 2019 
- 3rd place, at host place, 2nd date of "Gran Premio de México" (hosted by FES Acatlan) – ICPC, team "404.Globito Not Found", May 2019
- 5th place, of 21 teams, XI Annual Programming Contest "Donald E. Knuth" by IPN – ESCOM, team "ExpoESCOM", June 2019 