



# Enrique Ramos Diaz

Bachelor of Science in Computers Systems Engineering  
Technician Degree in Computation

## CONTACT

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## COURSES AND CERTIFICATIONS

Microsoft Office Certification by the CECATI  
No. 1 on July 2015

English B2 Certification by the IPN on March 2018

## PROGRAMMING LANGUAGES

6 years: C/C++  
5.5 years: PHP  
5 years: Java  
C#/.NET  
4.5 years: Python  
2.5 years: JavaScript  
1 year: ColdFusion

## TECHNOLOGIES

- TensorFlow, Keras, TensorRT
- Google Colaboratory, Jupyter Notebook
- Scikit-learn, Pandas, OpenCV, Numpy
- JQuery, Bootstrap, Materialize
- Hibernate, Spring, Struts2
- Conekta, JSP, XML, HTML 5, CSS
- Flask, Jinja2
- Node.js, Socket-IO, Vis.js
- Heroku, Eclipse
- LaTeX, Git, TortoiseSVN
- MySQL, PostgreSQL, Oracle

## EDUCATION

2016 – 2021	Computers Systems Engineering, B.S.
México	Superior School of Computer Sciences (ESCOM) - IPN
2013 - 2016	Computation, Technical Degree
México	CECyT No.8 Narciso Bassols - IPN

## LANGUAGES

Spanish – native  
English – B2

## AWARDS

Student of academic excellence for 4.5 years at ESCOM IPN – GPA 9.50

Student of academic excellence for 3 years at CECyT No. 8 IPN – GPA 9.65

## PROFESSIONAL EXPERIENCE

### BubbleTown

#### Machine Learning Developer

From Jan/20th/2020 to Jan/20th/2021 - México

- Design of an **intelligent system** to offer **personalized advertising** to clients.
- Training and design of **convolutional neural network** models, using **TensorFlow**.
- Generation of **visual recommendations** for the company's drinks based on **parameters** detected from the **face**.
- Use of **computer vision**, image processing and **augmented reality** with **OpenCV**.
- Work with **NVIDIA** minicomputer architectures, using **TensorRT**.

### Coordination of the Institutional Information System IPN

#### Web Developer Junior

From Feb/24th/2020 to Ago/24th/2020 - México

- Maintenance of the **institutional web systems** corresponding to the **IPN budget**, using **MVC**.
- Reengineering and redesign of the **graphic user interfaces** from the web systems that manage the **institute's accountancy processes**, using **Bootstrap**.
- Implementation of **CRUDs** and creation of **procedures** in the **institute's databases**, using **Oracle**.
- Testing on these IPN web systems, according to the established business rules.

### CECyT No. 8 Narciso Bassols IPN

#### Software maintenance

From Jan/18th/2016 to Jul/22nd/2016 - México

- Maintaining the **applications** code used in the Polytechnic Unit for Social Integration (**UPIS**).
- Design and implementation of a **management software for scholar excursions** for the CECyT students in **.NET** and **MySQL**.
- Training to those people in charge of this software.

## PROJECTS

### BubbleTown's personalized advertising

Intelligent system for the drinks company BubbleTown that offers personalized advertising to customers through recommendations of drinks based on parameters detected from their faces; these are displayed with augmented reality. Developed with **Python**, **TensorFlow**, **OpenCV**, **TensorRT** and the **NVIDIA Jetson**.

### SIG@ IPN - Institutional Administrative Management System

Web system where the offices of the IPN carry out the registration of the information related to the financial, accounting, human capital and material resources processes of the institute; developed with **ColdFusion**, **Bootstrap**, **JQuery** and **Oracle**.

### Shopping Cart

Web shopping cart with real bank transactions; developed with **Hibernate**, **Spring**, **Struts2**, **Conekta**, **Bootstrap** and **PostgreSQL**.

+10 projects which I am truly proud of: [brokenerk.github.io/#projects](https://brokenerk.github.io/#projects)