

ENRIQUE RAMOS DIAZ

Computer Systems Engineer
Software Developer

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🌐 brokenerk.github.io
🔗 brokenerk [in](#) eramosd

📍 State of Mexico, MX



EXPERIENCE

Backend Developer Semi Senior

NCR Corporation

📅 May 2021 – Ongoing

📍 Mexico City, MX

Frontend Developer

Byronmuller

📅 Mar 2021 – Apr 2021

📍 Mexico City, MX

- Programming and layout of website designs for health care area companies like Columbia.
- Design of **visual aids** with content of advertising, marketing and informative campaigns from **medicine area clients** such as: **Valeant, Grossman, Leo Pharma** and **Amgen**.

Machine Learning Intern

BubbleTown

📅 Jan 2020 – Jan 2021

📍 Mexico City, MX

- Design of an **intelligent system** to offer **personalized advertising** to clients on Python and C++.
- 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**.

Full Stack Developer Junior

IPN

📅 Mar 2020 – Aug 2020

📍 Mexico City, MX

- 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**.

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 and accounting processes of the institute; **developed with ColdFusion, Bootstrap and JQuery.**



+10 projects that I'm really proud of:

<https://brokenerk.github.io/#projects>

CERTIFICATIONS



Microsoft Office Certification

by the CECATI No. 1 on July 2015



English B2 Certification

by the IPN on March 2018

AWARDS



Student of academic excellence

for 4.5 years at ESCOM IPN – CGPA: 95.20 (3.76)

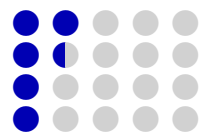
SKILLS

Python (yrs)

JavaScript (yrs)

Docker/Kubernetes (yrs)

C/C++ (yrs)



Vue.js

React Native

PHP

Java

C#/.NET

TensorFlow

Keras

TensorRT

Scikit-learn

Pandas

OpenCV

Numpy

Bootstrap

Materialize

API REST

Conekta

HTML

CSS

Flask

Jinja2

Node.js

Socket-IO

Vis.js

Heroku

LaTeX

Git

Google Colaboratory

SQLAlchemy

SQL

LANGUAGES

Spanish - Native

English - B2

EDUCATION

B.S. in Computers Systems Engineering

ESCOM - IPN

📅 2016 – 2021

📍 Mexico City, MX

Technical Degree in Computation

CECyT No. 8 Narciso Bassols - IPN

📅 2013 – 2016

📍 Mexico City, MX

PUBLICATIONS



Journal Articles

- Moreno-Armendáriz, M. A., Calvo, H., Duchanoy, C. A., Lara-Cázares, A., Ramos-Díaz, E., & Morales-Flores, V. L. (2022). Deep-learning-based adaptive advertising with augmented reality. *Sensors*, 22(1). doi:10.3390/s22010063