

# Ismael Porto García

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## EDUCATION

### Escuela Superior de Computo - Instituto Politecnico Nacional (ESCOM IPN)

- B.S. in Data Science GPA 86/100  
Relevant Courses: calculus, data structures, and databases.

Graduating in August 2026

## EXPERIENCE

### Python Course Instructor

### Google Developer Clubs

April 2023 – May 2023

- Taught concepts of Computer Science and Python to students from UPIITA. Covered several topics, from how the machine understand the code through **memory allocation** of data structures in Python.
- Implemented final projects each class, from **Caesar cipher through Blackjack** game.

### Junior Web Developer

### Freelance

December 2021

- Developed web app to promote a local business selling various items.
- Created using Wordpress toolkit, implemented **PHP** to configure domain properties and protocols.
- Learned how to use PHPMyAdmin, which is a tool to **manage administration of MySQL over the web**.

## PROJECTS

### E-Market

January 2022

- Coded a web application with **MERN** Stack and **security** tools that helped completely the logistics of a restaurant during **COVID-19** times.
- Participated in ExpoBatiz and got **1st place** out of 50 projects. **Published** article in science magazine.

### Crime prediction in Mexico City

April 2023

- Created a whole data science project to predict the number of crimes in a town inside Mexico City. Based on open data from Mexico Gov. Coded with Python machine learning and data analysis tools.
- Analyzed over 1,000,000 datapoints with algorithms such as **KNN** and **Simple Imputation**.

### Bad Bank

August 2023

- Created a **full-stack** application that simulated bank operations, such as deposits, withdraws and transfer. Implemented secure architecture using **hash** encryption and **jwt**.
- Developed using **ReactJS**, **MongoDB**, **NodeJS**, **Express**.

## EXTRACURRICULAR

### MITxPRO Bootcamp MERN Stack

October 2022 – Present

- Participating in the MITxPRO MERN Stack bootcamp. Developing web projects using **Docker**, **JWT**, **JUnit**, **MERN** and **Linux**.

### Google Developer Student Club UPIITA Core Team

September 2022 - Present

- Collaborated as an instructor on Python course, preparing an Introduction to Machine Learning and Data analysis courses.
- Sharing community activities such as conferences, “noches de ignites” and workshops through social media in order to get noticed in other universities along the country.

### Nous, Data Science Community

June 2023 - Present

- Founded a Data Science Community called Nous. Spreading data science knowledge to students on social media.
- Collaborated as a content creator and teacher. Looking forward to making events in the 2<sup>nd</sup> semester of 2023 with other communities.

### Porto Notes

April 2023 - Present

- Using **Typescript** with **React** to manage the interface and **Markdown** to edit files. Writing about data science, computer science and personal notes. For instance, **SQL** introduction, data formats or **OLAP and OLTP differences**.

## SKILLS

- Programming Languages:** (+3 years): Python, Java, (+2 years): JavaScript, C.
- Technologies:** (*familiar*): Git, Jupyter, SQL, Linux, Pandas, Sklearn, Matplotlib, Markdown, MongoDB (*basic*): React, NextJS, Vite, Docker.
- Courses:** DP-900 Learning path from Microsoft Learn, Java OOP, 100 Day of Python, Intro to ML by Kaggle.