

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 **frontend** application that simulated bank operations, such as deposits and withdraws. Each account can look at their history of operations and personal data.
- Developed using ReactJS, **Context API**, **React Hook Form**, **Vercel** and **Router DOM**.

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 2nd semester of 2023 with other communities.

Porto Notes

April 2023 - Present

- Using **Markdown** and **GitBook** to build my blog. Writing about data science, computer science and personal notes. For instance, **SQL** introduction, data formats or **OLAP and OLTP differences**.
- Migrating my blog to a most customizable tool, using HTML, CSS and Obsidian as the editor.

SKILLS

- Programming Languages:** (*proficient*): Python, (*familiar*): JavaScript, Java, 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.