

## Renato Sanchez

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Web Portfolio: <https://renatosanchez.netlify.app/>

## Education

### BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA

Puebla, MX

Bachelor of Computer Science (9th semester)

2021 – present

Relevant Coursework: Data Structures, Web Applications, Artificial Intelligence, Probability, Analysis and Design of Algorithms.

### DELFIN PROGRAM INSTANCE

Virtual Instance

Research Instance at Autonomous University of Sonora

2024 April - August

Participated in the *"Diagnostic diagrams in galaxies observed with MaNGA field spectroscopy from the Sloan Digital Sky Survey"* project accompanied by Professor Jesús López Hernández, during 4 months I learned about the astronomical research process including creating Python scripts to study galaxies in different ranges of the spectrum.

## Technical Skills & Projects

**Programming:** C, C++, SQL, Python, MATLAB, Java, JavaScript, Lua.

**Web Technologies:** React.js, Angular, Astro, TailwindCSS, Node.js, Express.js.

**Skills:** Analytical thinking, self-taught, fast learner, Linux experience, Git version control, Data Scientist & IT Support knowledge, conversational English.

### InterVisor

As final product from my Delfin Virtual Instance I created [InterVisor](#), a GUI processor, analyzer, and handler of datacubes from the MaNGA / Sloan Digital Sky Survey written in Python. Focused on simplifying and automating repetitive tasks/processes.

### Software engineering Final Project

Created a political text analyzer in order to extract all the texts from mexican government reports of the last 20 years, this project performs generation of general statistics, lexical scatter plots, word clouds, trend plots and time series plots.

### Web Applications Final Project

Created a user management system for students, teachers, and administrators. Teachers can publish classes to a specific classroom, date, time, and career, and students can join different classes, besides a global charts section for admins.

## Relevant Experience

### BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA

Puebla, MX

Social Service

2025 January - July

Reorganize and expand the functionality of a healthy diet platform, integrating ingredients into the database and implementing managers to manage them (adding new ingredients one-by-one or in bunch on a .csv file). I learned about frontend, backend and database technologies.