

# Joaquin D. Moreno

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## OBJECTIVE

Senior Computer Science student with experience programming, as well as creating a database, seeking an opportunity to gain in depth knowledge with an **internship/co-op** in 2024.

## EDUCATION

**University of Houston**, College of Natural Science and Mathematics  
Bachelor of Science in Computer Science with a minor in U.S. Ethnic Studies

Expected: **December 2024**

**GPA: 3.04**

## PROJECTS

### Medical Clinic Database

**Fall 2023**

- Researched doctor, patient and administration procedures to develop a database that is able to output **4** queries, and **5** reports based off observed data
- Utilized SQL, react.js, node.js, html, and Azure to connect the front end and back end components for a structured database

### Game Development - Stardust Project

**Fall 2022**

- Devised a Branching Decision-Based Story game that had RPG elements employing C++
- Translated an original science fiction story to a program utilizing the idea of Class inheritance and employed problem solving strategies for the dissonance between the story and C++ capabilities

### Solar Energy Coding & Research Project

**Fall 2021**

- Quantified the acreage of solar power plants to create an algorithm that visualized the approximate land mass needed for energy consumption for a function in a MATLAB app
- The function displayed a map of Oahu which was used to show the square mileage of the solar plant compared to the size of a fossil fueled power station
- Harnessed MATLAB's ability to visually edit the map that present **2** separate rectangles revealing the contrast in proportions

## JOB EXPERIENCE

### PROMES Summer Camp Logistics Team

**June - July 2021**

**Location: Houston, Texas**

- Operated within a team to produce a new format for the engineering summer camp model to implement in the future which created and updated **8** new engineering activities

## SKILLS

### Computing Software:

Python, C++, CCS, HTML, SQL, react.js, node.js

### Applications:

Microsoft Office Suite, Mathematica, MATLAB (integrating Excel and imaging), R-Studio

### Transferable Skills:

Cooperative, Problem Solver, Adaptable, Empathetic

## COLLEGE ACTIVITIES

### Program for Mastery in Engineering Studies (PROMES)

**2020-present**

- Aided in the construction of calculator robots for a presentation under the St. Elmo-Brady program

### Society of Hispanic Professional Engineers (SHPE)

**2020-present**

#### Engineering Events Committee

- Served the organization's **6** tailgates for **300+** members with a team of **6**

#### Social Committee

- Handled logistics for various social events including Girls & Guys Night Out, and Posada Night

#### Academic Committee

- Assisted in the arrival of supplies to accommodate the attendees for **2** MATLAB workshops as well as **5** Study Red Mondays

## AWARDS AND RECOGNITIONS

- SHPE General Scholarship, \$500
- NACME Block Scholarship, \$1,750 (Every semester)
- Bob Mace Scholarship, \$500 (Every semester for 2 year)

## RELATED COURSES

- Introduction to C++
- Introduction to Data Structures
- Introduction to Computer Organization
- Database System