

# Rosendo Marquez

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## Education

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**University of California, Riverside:** Computer Engineering  
Expected Graduation: 2025

**GPA:** 3.8

**Moreno Valley College:** Associates Transfer in Computer Science  
Fall 2021 - Spring 2023

**GPA:** 3.9

**Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Software Construction  
**Relevant Skills :** C++, Java, Git

## Projects

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- ***Birthday Reminder Bot- Java***
  - Developed a Java-based Discord bot to manage user birthday registrations and notifications using Hashmaps for storage and authorization
  - Utilized Discord API to interact with users, allowing users to register birthdays and receive automated birthday greetings on their special day.
  - Implemented file handling for data persistence, enabling the bot to store and retrieve user birthday information
- ***Pacman- C++***
  - Developed a GUI based Pacman game using SFML graphics library.
  - Implemented game mechanics, graphics, and user interaction including collision detection.
  - Incorporated custom-designed visuals and sound effects for a personalized experience.
- ***Arduino Air-Quality Meter***
  - Created a simple air quality measuring device using an Arduino kit and dust sensor
  - Configured the device to measure the amount of dust particles in the air and equipped with three LED lights to indicate air quality levels

## Work Experience

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- ***Research Assistant - University of Riverside, California June 2023 – Sept 2023***
  - Contributed to laboratory experiments focused on studying the combustibility of magnesium by creating and analyzing magnesium hydride nanoparticles for use in energetic applications.
  - Created python scripts to automate data analysis, handling scientific data related to XRD data
- ***Crew Trainer - Mcdonald's August 2021 - November 2022***
  - Conducted training for new hires, covering food safety and customer service topics
  - Managed employee breaks, assigned positions, scheduled training sessions, and monitored performance, developing leadership and interpersonal communication skills in the process.