# Gabriela Rojas

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## EDUCATION

**California State University, San Marcos**                                             Expected Graduation: May 2024
*Bachelor of Science, Software Engineering*                                                               GPA: 3.34
Relevant Coursework: Data Structures & Algorithms, Java Design Patterns, Database Management Systems,Software Requirements and Design, Software Project Planning and Management, Software Testing

## TECHNICAL SKILLS

**Languages:** Java, C++, Python, ReactJS, JavaScript, HTML, CSS,  **Database**:  mySQL

## INTERNSHIP EXPERIENCE

**Marine Corps Tactical Systems Support Activity - Interdisc. Student Trainee**          June 2022- August 2022
- ❖ Developed a web application using React JS that showcases live data from a PR200 spectrum analyzer.
- ❖ Improved data visualization by incorporating an interactive plot and waterfall graph that dynamically updates based on user inputs.

**Northrop Grumman - College Intern - Technical Software Engineer**              June 2020 - August 2020
- ❖ Utilized Java to design and develop an HTTP web server for satellite communication
- ❖ Used JavaScript, AJAX on the backend of the GUI to output information being sent through a server onto a webpage

## TECHNICAL PROJECTS

**IPSA Summer School 2023 - Institute of Polytechnic Science and Aeronautics**                      July 2023
- ❖ Gained foundational knowledge in Robot Operating System (ROS) and the development, design, construction, and control of both a simulated quadrotor and real bicopter drone for autonomous flight
- ❖ Actively engaged in microcontroller programming to enhance flight stability

**Marine Corps Tactical Systems Support Activity (MCTSSA) - Sage Framework GUI**       January 2021 - May 2021
- ❖ Improved the efficiency and usability of the Sage Framework GUI by creating a slimmed-down version with a focus on tools essential for MCTSSA operations
- ❖ Utilized Sage Frameworks APIs to retrieve data about the servers, nodes, agents.

**Google Computer Science Summer Institute Extension**                                          August 2019
- ❖ Used  Html/CSS, JavaScript, Python and Jinja2 to develop the front-end and back-end of a web application that connects CSUSM student's with each other based on interests by utilizing Google Cloud Datastore to store and manage user data

**STEM Summer Robotics Institute**                                                                July 2019
- ❖ Used Lego Mindstorms NXT Technology and the RobotC Programming Language to build, test, and program small robots by using different concepts of engineering design and computer science

## LEADERSHIP / AFFILIATIONS

**Treobytes STEM Lead Facilitator**                                            September 2022 - Current
- ❖ K-12 Facilitator for Science, Technology, Engineering, and Math(STEM)  Enrichment Classes. With fellow Facilitators we lead K-12 students in completing STEM-related projects.

**Yo Soy Stem Initiative - member**                                                   **March 2022 - Current**
- ● Play a key role within "Yo Soy STEM", focusing on video editing to support the creation of engaging multimedia content celebrating diversity in STEM fields.

**CSTEM Student Assistant**                                                    June 2022 - December 202
- ❖ Supporting CSTEM Summer Orientations and various events, additional support for academic peer mentoring and workshop series offered to CSTEM majors.

## AWARDS / RECOGNITION

**2023 Advancing Women in Technology (AWT) Scholarship**                                      **March 2023**
**Hispanic Heritage National Youth Award - Technology & Engineering Recipient**             **February 2019**