

**Alexia Cristina Perez**

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**EDUCATION**

**Texas A&M University**, College Station, Texas  
Bachelor of Science in Computer Engineering  
Minor in Cyber-Security

Graduation: May 2022  
GPA: 3.3

**SKILLS**

Python, C++, C, MATLAB, Microsoft Office, Electric Circuit Design, Data Structure & Algorithms, Fluent in Spanish, Fluent in Catalan

**EXPERIENCE**

**Texas A&M University Department of Computer Engineering**

July 2020 - Present

*Undergraduate Research Assistant*

- Utilized Coderrect to detect 44 races within Redis
- Analyzed over 2000 lines of code to identify which races presented security vulnerabilities
- Presented progress and identified future steps during weekly meetings with individual and team management

**American Airlines, Tulsa OK**

*Co-Op Student*

June 2020- December 2020

- Rescinded due to COVID-19

**Marder Benefits (Insurance Agency) Humble, TX**

August 2017 – August 2018

*Administrative Assistant*

- Point of contact for IT issues; assessed and provided support for minor software issues, worked with the IT team for more technical problems

**PROJECTS**

**Hash Table Quiz Grades**

April 2020

- Created a C++ program to aid teaching assistants in determining student quiz grades by creating a Hash Table from a given record file with student grades and storing each student's ID and quiz grade
- The program then read a given student roster and searched for each student's ID and quiz grade in the Hash Table
- The output file was an organized spreadsheet with every student registered in the course and their grade on the quiz, if the student had not taken the quiz, a blank space was outputted as their grade

**Electronic Security System Design**

February 2020 – March 2020

- Designed a circuit that detected an interruption in a light beam and triggered an indicator by using an infrared emitter, a photo detector, operational amplifiers, resistors, a comparator, a latch, and light emitting diodes
- Learned about the different purposes of Operational Amplifiers while creating this circuit

**ACTIVITIES AND LEADERSHIP**

**Texas A&M Society of Women in Engineering**

*Membership Chair*

May 2020 – Present

- Managed the membership roster, kept track of member's involvement, and sent updates to the membership about organization events.
- Developed code using Google scripts to automatize tasks such as the ones mentioned above
- Planned and organized a virtual alumni event to connect current and past SWE members

*SWEIites Professional Development*

August 2019 – May 2020

- Professional development counselor for a freshman leadership organization (SWEIites) within the Society of Women Engineers.
- Oversaw 10 SWEIites members through the planning of professional development events and implementation of new ideas such as Resume workshops, business attire presentations, and career fair workshops.

**Texas A&M University Chapter of Alpha Omega Epsilon**

February 2019 – April 2020

*Vice-President*

- Founder of the Alpha Omega Epsilon Chapter at Texas A&M University. Gathered a group of interested people and worked to make it an official organization at the university. Wrote bylaws and planned recruitment events for the Fall and Spring semesters in order to expand the organization.
- Oversaw the Director of Public Relations and the Recruitment, Ritual, and Public Relations Committees.