

Maureen Sanchez

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EDUCATION

Louisiana State University

Bachelor of Science in Computer Science, Software Engineering concentration

Expected Graduation: December 2025

SKILLS

- **Languages:** C++, C#, HTML, C, Javascript, Ruby
- **Frameworks:** Figma, Blazor, Bootstrap, Firebase
- **Methodologies:** Agile/Scrum, Requirement Analysis, Jira
- **Soft Skills:** Peer Mentoring, Workshop Facilitation, Team Collaboration
- **Other Technical Skills:** Soldering

WORK EXPERIENCE

Embedded Systems Intern

NASA/CaSGC Microcomputer & Robotics Internship

Salinas, CA

May 2022 - August 2022

- Tracked the health vitals of an individual by creating an Arduino health monitoring system to monitor their health status.
- Implemented the C++ code to ensure that all the vitals were being accurately collected.
- Troubleshoot program and hardware issues with other members of the team on a daily basis.

Student Intern

Hartnell STEM Micro-internship: Aquatic Engineering Design and Prototyping

Salinas, CA

March 2022 - April 2022

- Led a 3 person team following the engineering design cycle to design, construct, prototype, test, and complete an enhanced large floating duck to race up and down a river through remote control of the ducks.
- Built the remote system that controlled our duck design using C++ that was implemented in an Arduino Uno.
- Collaborated with team members to brainstorm solutions that overcome the challenges in the implementation of the design.

LEADERSHIP EXPERIENCE

Club Representative

LSU CS Council

Baton Rouge, LA

June 2024 - present

- Partner with other representatives to share computer science job opportunities and campus events with club members.
- Ensure students remain informed about career resources and professional development activities.

Executive Board

BengalBots, LSU

Baton Rouge, LA

May 2023 - present

- Developed systems tracking attendance and managing club finances, including monitoring fund collection and spending.
- Organized and maintained club records, systematically cataloging 3 years of previous documents alongside current paperwork.
- Organizing professional development workshops to help students build their resumes, develop their elevator pitch and interview skills.

PROJECTS

Hotel Operations Efficiency System | Full Stack Developer

September 2024 - December 2024

- Developed a web application that serves as a platform to improve management efficiency for hotels with features such as customized interfaces based on role access, user listings, and employee dashboards for tasks and company announcements.
- Served as Communications Lead for a team of five, ensuring team awareness of deadlines and project specification changes.
- Utilized Blazor and Bootstrap as front-end frameworks to create a responsive interface for mobile and desktop.
- Developed C# functions that handle data retrieval and storage, integrating with Firebase Database.

Pocket Travel

November 2024

- Collaborated in a two-person team, using C# to develop a web application to assist travelers with essential information while navigating foreign countries that was submitted for the 36 hour LSU SASE Geaux Hack hackathon.
- Utilized Blazor and Bootstrap as front-end frameworks to create a responsive, user-friendly interface.

BengalBots' Bengal Bot Brawl 2024 Submission | Programming Lead

September 2023 - April 2024

- Collaborated with the Combat division to design and build a combat robot for the annual Bengal Bot Brawl to compete in three different rounds: out of sight, in sight, and rumble against senior engineering student teams from LSU.
- Led a team of 8 students to design and implement C++ code to enable wireless remote control of a 30-pound combat robot.

ORGANIZATIONS

Society of Asian Scientists and Engineers (SASE)

Society of Women Engineers (SWE)

Women in Computer Science (WiCS)

Engineering Diversity Ambassadors (EDA)

BengalBots

Google Developer Student Club (GDSC)