

Luisangel Esparza

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EDUCATION

University of Houston

Houston, TX

Bachelor of Science, Computer Science
Minor, Math

Expected May 2026

Relevant Coursework: Software Design, Database Systems, Algorithms and Data Structures, and Operating Systems

WORK EXPERIENCE

Information Technology Intern

June 2024 – August 2024

Harris County Precinct 2 Houston, TX

- Designed and implemented a **real-time** tracking system that reduced disaster response times up to **75%**.
- Integrated and deployed a **vehicle tracking system**, allowing for real time tracking and reports of precinct vehicles.
- Resolved **50+** hardware issues across **13 different sites**, improving overall operational efficiency.

Coding Instructor

January 2025 – May 2025

Coder Kids Houston, TX

- Instruct **22 K-5 students** per week on core and fundamental computer science topics through a series of projects.
- Maintain weekly progress **reports** for parents, fostering open **communication** and the students development.

PROJECT EXPERIENCE

Master Mind | C#, ASP.NET, .NET, svn

August 2024 - September 2024

- Implemented **test-driven development(TDD)** with **NUnit**, creating **25** unit tests, reducing bug detection time by **24%**.
- Designed a interface that enhanced user experience through intuitive controls through vanilla **HTML, CSS, and JS**.
- Created a **RESTful API** for game logic, enabling seamless integration of game functionality into diverse front-end apps.

Ship It! | ReactJS, Express, MySQL, aws, HTML, CSS, Git

August 2024 - November 2024

- Developed a responsive and dynamic multipage **shipping service** with an intuitive user experience.
- Implemented **database design principles** to manage and manipulate data efficiently, ensuring data integrity.
- Led a **team of 5** by fostering a collaborative environment through weekly meetings, ensuring project deadlines are met.

Portfolio Website | HTML, CSS, JavaScript

- Created a personal website, showcasing my knowledge in **web development** and deploying live builds.
- Utilized vanilla HTML, CSS, and JavaScript to
- Explore my projects, experience, and just me in general by visiting! Feel free to reach out and **contact me**.

Rate Monotonic Scheduling | C++, Git

January 2024 - February 2024

- Developed a **multi-threaded** system to simulate task scheduling using the Rate Monotonic Scheduling algorithm.
- Designed a **client-server** system for task processing through optimized **buffer management**.
- Achieved efficient scheduling through **thread synchronization**, avoiding race conditions and deadlocks.

Leadership & Involvement

CougarCS Algorithms Workshop Director

January 2024 – Present

- Direct exam workshops for **algorithms** course, providing valuable study resources and ensuring student success.
- Coordinate a team of **4+** tutors to effectively produce high quality workshops and represent our impact as a club.

CougarCS Operations Team

September 2024 – May 2025

- Proactively contribute to to the success of club events, demonstrating strong **versatility** and **engagement**.

TECHNICAL KILLS

Languages: C++, Python, C#, SQL, JavaScript, HTML, CSS

Libraries and Frameworks: React, Flask, .NET, ASP.NET, Express

Developer Tools: Git, SVN, MySQL, Docker, Postman, Windows Subsystem Linux