
Aliyah Melendez

Contact

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Education

2020 - Graduated August 2025

Texas State University - San Marcos, TX

- B.S. in Computer Science
- Minor in Applied Mathematics

Relevant Coursework:

- Linear Algebra
- Intro to Advanced Math
- Intro to Network Science
- Human Factors
- Intro to Software Development
- Probability and Statistics
- Calculus I & II

Technical Skills

- Coding Languages:
 - Python
 - C++
 - Java
 - HTML/CSS/JavaScript
- Data Tools:
 - Pandas, NumPy
 - SQL, Power BI, Tableau
 - Excel (advanced formulas, charts, and statistics)
- Software and Libraries:
 - Git/GitHub, MATLAB, R,
 - Flask, REST, APIs
 - LaTeX
- Soft Skills:
 - Bilingual, fluent in English and Spanish
 - Team Collaboration
 - Organization
 - Communication
 - Research

Experience

Mathematics Research Assistant - Texas State University
Summer 2024 and Summer 2025

- Collaborated under Dr. Christine Ruey Shan Lee researching Khovanov homology and related algebraic structures.
- Cleaned, organized, and analyzed mathematical data. Presented findings to faculty and peers.
- Strengthened research documentation and cross-team communication through clear, technical reporting.

Digital Content Coordinator - Complexity Gaming, Frisco, TX
October 2021 - July 2022

- Managed digital communications and client relations for multiple gaming and esports talents.
- Used data insights to optimize engagement and consistency across content platforms.

Library Assistant - Reeves County Library, Pecos, TX
May 2019 - August 2020

- Organized digital and physical collections, tracked circulation statistics, and supported patrons' inquiries.
- Improved workflow efficiency by categorizing and tagging digital resources for faster retrieval.
- Planned and hosted community events to promote library resources and encourage literacy among children and families.

Animal Shelter Volunteer - San Marcos Regional Animal Shelter
November 2022 - December 2023

- Supported daily operations, data logging, and volunteer coordination.
- Promoted community engagement through organized, detail-oriented support efforts.

Campus Involvement

Girls Who Code TXST - Member and Event Organizer | Fall 2022 - Spring 2024
Provided peer mentoring and organized inclusive coding workshops.

Projects

Personal Portfolio Website - aliyahcodes.com

Built a personal portfolio website using HTML, CSS, and JavaScript. Deployed through GitHub Pages to my personal domain. Designed for responsive layout and accessibility. Hosts all coding projects.

Tiny Item-Item Recommender - Python

Created a minimal collaborative filtering demo using cosine similarity for item recommendations. Includes user-item matrix construction, similarity scoring, and top N output.

CSV Stats Parser - C++

Built a command-line tool to read and summarize CSV datasets (mean, median, mode, variance), emphasizing clean data handling.
