

ALIYAH MELENDEZ

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EDUCATION Texas State University - San Marcos, TX
Bachelor of Science in Computer Science - *expected August 2025*
Relevant coursework: Linear Algebra, Statistics, Human Factors, Technical Communication

WORK EXPERIENCE

Mathematics Research Assistant Summer 2024
Texas State University - San Marcos

- Conducted academic research under Dr. Christine Ruey Shan Lee on complex mathematical structures.
- Documented and explained abstract concepts in written and verbal formats.
- Collaborated with students and faculty in a supportive and structured research setting.

Animal Shelter Volunteer Nov 2022 - Dec 2023
San Marcos Regional Animal Shelter

- Provided direct care, support, and interaction with animals.
- Maintained cleanliness, records, and contributed to an organized, welcoming environment.
- Volunteered during weekends and holidays to meet staffing needs.

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

- Managed communication for clients, balancing schedules, requests, and branding consistency.
- Analyzed and presented data to improve outreach and engagement strategies.

PROJECTS AND CAMPUS INVOLVEMENT

- **Girls Who Code TXST – Member Fall 2022 – Fall 2024**
 - Offered peer support through coding lounges by providing technical help, encouragement, and study strategies; helped plan inclusive workshops and events.
- **Discrete-Time Event Simulation**
 - Designed and reported on a CPU scheduling simulator using M/M/1 queuing theory; explained technical results to non-technical audiences.
- **Personal Task Tracker**
 - Built a Java productivity app with task organization, filtering, and sorting features using OOP principles for intuitive daily planning.

KEY SKILLS

- **Software Tools:** Microsoft Office 365 (Word, Excel, Outlook, Teams), Zoom, Google Workspace, Git/GitHub.
- **Programming Languages:** Python, Java, C++, JavaScript, HTML, CSS.
- **Math/Statistics Tools:** MATLAB, R, LaTeX, Excel (formulas, charts, statistics).
- **Web & App Development:** Flask, REST APIs, Responsive Design.
- **Data Analysis & Visualization:** Pandas (Python math library), Excel, basic SQL, charting libraries, MongoDB Database Management.
- **Soft Skills:** Bilingual, fluent in English and Spanish. Strong written and verbal communication, time management and organization, Collaborative, Detail-oriented and adaptable.