Sergio Villarreal

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Education

University of Texas at San Antonio
Bachelor of Science in Computer Science
Concentrations in Data Science and Cybersecurity
Graduation in Spring 2025

August 2023 – Present
GPA: 3.85

Northeast Lakeview College
Associate of Science
Associate of Arts

August 2021 – May 2023
GPA: 2.96

Leadership Experience

Sam's Club
Curbside Associate

May 2024 – Present

- Actively identifying and suggesting process improvements to streamline operations and enhance team productivity.
- Contributing strategic ideas to drive business growth, increase throughput, and support sales objectives
- Fostering personal connections with business owners, driving sales through tailored recommendations.

Chick-fil-A
Drive-Thru Director

June 2021 – August 2023

- Led a team of 10-15 team members. Cultivated a productive and supportive atmosphere focused on achieving operational excellence
- Identified team members with potential and invested resources to nurture their growth into leadership positions
- Ownership of drive thru sales channel. Ensured peak performance and seamless operations

Research and Projects

Data Integration via Federation Using Natural Language to SQL (NL2SQL)

December 2024 – Present

- Developed an AI-powered system using NL2SQL to transform English queries into SQL statements for database interactions
- Prioritized a mediator-based federation approach over traditional ETL to query multiple databases as a unified system, reducing operational costs and implementation time.
- Designed a pipeline to convert English queries to SQL, transform them for underlying databases, and integrate results into Power BI for visualization.

Purdue's National Data Mine Network

August 2024 – Present

- Collaborating with corporate partners to develop a machine learning solution focused on improving organizational productivity
- Employing industry standard Agile/Scrum methodologies to drive team collaboration and project success
- Engaging in weekly sprints and mentor meetings foster professional growth

Datasets Containing the Entire Bible Across Multiple Versions

May 2024 – Present

- Collected and prepared comprehensive datasets from the Bible for use in machine learning applications
- Utilized web scraping techniques on www.bible.com to extract and format data into CSV files
- Implemented a multithreaded approach, reducing extraction time per Bible version to under 2 minutes

Full Feature iOS Sound Board App

April 2024 – May 2024

- Developed a full-feature iOS soundboard app using Swift and UIKit, delivering an engaging user experience
- Designed intuitive UI/UX interfaces to ensure seamless navigation and interaction for users.
- Implemented data persistence techniques to store user preferences and settings across sessions

Accolades and Involvement

- UTSA Fall 2023 Honor Roll
- UTSA Spring 2024 President's List
- UTSA mentor in Mentor Collective program
- Completed CodePath's iOS development course with Honors
- Competed in 2022-23 International Collegiate Programming Contest (ICPC) at Texas State

- 2023 HACU Emerging Leaders' Summit attendee
- RowdyHacks 2024 and 2025 attendee, 24-hour project
- Youth Code Jam volunteer
- Member of the Association for Computing Machinery
- Junior Officer for ICPC division at UTSA
- Grader for Computer Architecture class