

Lesli D. Perez

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EDUCATION

University of Texas Rio Grande Valley, ABET Accredited

GPA: 3.70

Master of Science in Computer Science

Graduated: December 2025

B.S. in Computer Engineering, Minor in Asian Studies

Graduated: December 2023 GPA: 3.71/4.0

EXPERIENCE

UTRGV College of Engineering and Computer Science

Edinburg, TX

Research Assistant - MI@UTRGV

Sep 2023 – June 2024

- Analyzed AI and reinforcement learning algorithms to support innovative, data-driven projects.
- Developed and presented a research proposal on autonomous vehicles to CS professors and students.
- Implemented reinforcement learning experiments in Python to enhance recommender system performance.

Smart Technology Research Assistant - DoD I-DREAM₄D Consortium

May 2021 – May 2022

- Developed a multi-laser AM open system that integrates motion stages, sensors, and controllers.
- Added features to legacy code in VS using C# and ActiveX for the machine's translation stages and galvo system.

System Analyst Support

Feb 2023 – Feb 2024, June 2024 – Dec 2025

- Automated user account creation using Bash scripts and first-login protocols, reducing manual processing by 90%.
- Installed and updated operating systems and software for university-managed computers.
- Upgraded systems from HDDs to SSDs, improving performance 2–5× and reducing downtime.

Undergraduate Assistant (Front-End) - PREM

Feb 2020 – May 2021

- Enhanced UX/UI for the bilingual Energy&U website, an Emmy-winning program, reaching 20,000+ students.
- Produced [Spanish](#) and [English](#) videos on nanofiber drug delivery systems with 3.1K+ views.

PROJECTS & ORGANIZATIONS

TikTok Users' Influence on Spotify Charts

Edinburg, TX

Data Scientist - Python, Pandas, Matplotlib, NumPy

April 2023 – May 2023

- Built ETL pipelines to extract streaming data from TikTok and Spotify using Python and Pandas.
- Analyzed trends to determine which platform influenced song popularity first, finding 66% of songs trended on TikTok before Spotify.
- Created visualizations to present insights on cross-platform influence and music promotion strategies.

Coffee Rating Predictor

Edinburg, TX

Data Scientist - Python, SciKit, Pandas, NLTK

April 2024 – May 2024

- Preprocessed 300 coffee reviews by removing null values, punctuation, stop words, duplicates, and encoding categorical variables.
- Visualized trends using word clouds and frequency analysis to differentiate positive vs. negative reviews.
- Built and evaluated a Gaussian Naive Bayes model to predict sentiment, achieving 83% accuracy.

UTRGV College of Engineering and Computer Science Capstone Project

Edinburg, TX

Full-Stack App Developer - ([GitHub Link](#))

Aug 2022 – May 2023

- Built Android app in Java with dual API integration that showcased real-time Arduino sensor data via Bluetooth.
- Designed a user-friendly UI with Figma and debugged Arduino and Java code for improved performance.

Tau Beta Pi Texas Nu - President, Social Media Manager, Member

Dec 2022 – Present

Rocket Launchers - Vice President, Telemetry Lead, Public Relations

Oct 2019 – May 2022

SKILLS & INTERESTS

Skills: Python (Pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, NLTK), ML & Data Analysis, Front-End & Back-End Development. Exposure to: R and Ruby

Tools: Jupyter Notebook, Git/GitHub, React, Flutter, SQLite, Jira, Asana, Figma, Miro