

Lesli D. Perez

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EDUCATION

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| University of Texas Rio Grande Valley, ABET Accredited <i>Master of Science in Computer Science</i> <i>B.S. in Computer Engineering, Minor in Asian Studies</i> | GPA: 3.70 <i>Graduated: December 2025</i> |
| | <i>Graduated: December 2023 GPA: 3.71/4.0</i> |

EXPERIENCE

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| UTRGV College of Engineering and Computer Science <i>Research Assistant - MI@UTRGV</i> | Edinburg, TX <i>Sep 2023 – June 2024</i> |
| <ul style="list-style-type: none">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. | |
| <i>Smart Technology Research Assistant - DoD I-DREAM4D Consortium</i> | <i>May 2021 – May 2022</i> |
| <ul style="list-style-type: none">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. | |
| <i>System Analyst Support</i> | <i>Feb 2023 – Feb 2024, June 2024 – Dec 2025</i> |
| <ul style="list-style-type: none">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. | |
| <i>Undergraduate Assistant (Front-End) - PREM</i> | <i>Feb 2020 – May 2021</i> |
| <ul style="list-style-type: none">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

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| TikTok Users' Influence on Spotify Charts <i>Data Scientist - Python, Pandas, Matplotlib, NumPy</i> | Edinburg, TX <i>April 2023 – May 2023</i> |
| <ul style="list-style-type: none">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 <i>Data Scientist - Python, SciKit, Pandas, NLTK</i> | Edinburg, TX <i>April 2024 – May 2024</i> |
| <ul style="list-style-type: none">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 <i>Full-Stack App Developer - (GitHub Link)</i> | Edinburg, TX <i>Aug 2022 – May 2023</i> |
| <ul style="list-style-type: none">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. | |

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| <i>Tau Beta Pi Texas Nu - President, Social Media Manager, Member</i> | <i>Dec 2022 – Present</i> |
| <i>Rocket Launchers - Vice President, Telemetry Lead, Public Relations</i> | <i>Oct 2019 – May 2022</i> |

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