

# Lance Penaflor

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## EDUCATION

### University of West Florida

Bachelor of Science in Computer Science; Minor in Statistics; Certificate in Data Science

Pensacola, FL

May 2027

## EXPERIENCE

### Business Systems Analyst Intern — Lending Systems *Navy Federal Credit Union* Nov. 2025 – Present

- Supported enterprise systems in the Lending Department, resolving technical access, authentication, and data-related issues via ServiceNow.
- Worked with Azure Active Directory, Azure DevOps, and internal tooling to manage user roles, permissions, and system workflows.
- Collaborated cross-functionally with the Lending Systems development team and Member Service Center to identify ticket trends and support workflow improvements.

### Data Systems Engineer Intern *Andrews Institute*

Sep. 2025 – May. 2026

- Engineered R applications for athlete performance and injury analytics, transforming raw data into interactive dashboards and data storytelling visuals for coaches and medical staff.
- Designed optimized SQL schema in Azure SQL to ensure scalability and real-time reporting.
- Streamlined automated data pipelines for real-time data collection and visualization, reducing manual entry time and enabling consistent analytics across platforms.

### Machine Learning & Data Analytics Research Assistant *UWF CSDA Lab*

Oct. 2024 – Oct. 2025

- Implemented Python data pipeline for large-scale mass spectrometry datasets (**10,000+ samples**) using Pandas, scikit-learn, NumPy, and Matplotlib, achieving **75% accuracy and 80% specificity**.
- Processed and analyzed complex, high-dimensional data, demonstrating ability to digest and structure large datasets for statistical modeling and performance analytics.
- Reduced data dimensionality by **99.8%** with wavelet transforms and PCA for computational efficiency.
- Delivered data storytelling reports and visualizations summarizing model metrics (accuracy, precision, recall, F1) to guide research decisions and algorithm selection.

### Teaching Assistant & Data Educator *University of West Florida*

Aug. 2024 – Present

- Founded a **35+** member Python and Data Science learning community, mentoring peers in analytics, visualization, and communication.
- Led weekly workshops on data visualization and storytelling using Python, improving engagement.
- Introduced Python-based labs and visualization exercises, replacing calculator workflows to modernize course analytics.
- Supported **120+** students in C++ Algorithms and Statistics, strengthening their analytical thinking and problem-solving.

## PROJECTS

### Music & Fashion Analysis (In Progress) | *Python, Pandas, Scikit-learn, ETL*

- Built ETL pipeline on **3 Kaggle datasets**, cleaning duplicates, removing nulls, and filtering using Pandas.
- Feature engineering by integrated LastFM API to enrich Spotify data with genre tags for all unique songs.
- Performed Exploratory Data Analysis on data using matplotlib to spot trends and gain insight on data.

### Data Science Learning Website | *React, Node.js, TypeScript, Express*

- Deployed browser-based coding + AI tutor platform with **50+ users** using React and Express.
- Directed a **3-person full-stack team** to deploy and maintain a browser-based platform using React/Express, implementing CI/CD via Vercel/GitHub for stability.

## TECHNICAL SKILLS

**Programming:** Python, SQL, R, C++, JavaScript, TypeScript, Java

**Data Tools:** NumPy, Pandas (ETL, EDA), Scikit-learn, PyTorch, TensorFlow, Matplotlib, R Shiny, Power BI, Excel

**Analytics Concepts:** Data Storytelling, Performance Tracking, Machine Learning, Statistics, Visualization

**Web & Systems:** Node.js, Docker, Git, REST API, Azure SQL, Azure DevOps, ServiceNow, Azure Entra ID