

# Lance Penaflor

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## EDUCATION

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### University of West Florida

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

Pensacola, FL

May 2027

## EXPERIENCE

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### 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

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### 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

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**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