Luis Mendez

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EDUCATION

University of Connecticut — Mansfield, CT
Bachelor of Science in Computer Science and Engineering — *Aug. 2023 – Apr 2027*

Concentration in Computational Data Analytics

University of Connecticut — Mansfield, CT
Bachelor of Science in Mathematics — *Jan. 2025 – Apr 2027*

EXPERIENCE

Valour Software (Open Source Project) — Vernon, CT
September 2024 – Present

- Explored methods to build components in Blazor.
- Designed and implemented a feature allowing users to interact with posts through reactions.
- Contributed 10k+ lines of code to an established codebase via Git.
- Visualized GitHub data to show collaboration metrics.
- Helped update and maintain the open-source database by utilizing ModuleBuilder Class method in C# to define and configure the database model structure.

PROJECTS

ML Disease Prediction
Libraries used: NumPy, Pandas, Matplotlib, SciPy, Scikit-learn — *Jan 2025*

- Designed and developed a machine learning-based disease prediction system that classifies diseases based on symptoms. The system utilizes a combination of three machine learning models to achieve robust and accurate predictions.
- Built and trained three machine learning models (SVC, Naive Bayes, Random Forest) to classify diseases based on symptoms.
- Created an efficient prediction function for disease diagnosis based on user input symptoms.

Acquiring and Processing Information on World's Largest Banks
Libraries used: NumPy, Pandas, Sqlite3 — *Oct 2024*

- Developed an automated ETL pipeline for extracting, transforming, and loading data related to the largest banks.
- Extracted data using web scraping techniques (BeautifulSoup, Scrapy) from relevant banking websites.
- Transformed the data by adding real-time currency conversion information using an external API.
- Loaded the processed data into both CSV files and a SQLite database for further analysis and reporting.

CERTIFICATIONS

Foundational C# with Microsoft
September 2024

Successfully completed the 'Foundational C# with Microsoft' certification, gaining a strong understanding of core C# concepts, object-oriented programming, data management, and best practices in a Microsoft environment.

Python for Data Engineering Project
October 2024

Successfully completed a project focusing on applying Python for data engineering tasks, utilizing libraries such as Pandas, NumPy, and Sqlite3 to extract, transform, and load (ETL) data from various sources. The project helped me develop key skills in data manipulation, pipeline creation, and database management.

SKILLS

Languages: Java, Python, C#, C, C++, JavaScript, Typescript
Frameworks: React, Node.js, Flask, Blazor
Developer Tools: Git, Visual Studio, Jetbrains, MSYS2
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, SciPy, Sqlite3, Pytorch