Na'Sir Miller
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EDUCATION

Rensselaer Polytechnic Institute (RPI) **Troy, NY**
Bachelor of Science in Information Technology and Web Science focused in ML *Expected May 2026*
Honors & Awards: Dean's Honors List (Spring '23), '22 Bridge Program

SKILLS

- Data Wrangling
- Data Analysis
- Machine Learning & Artificial Intelligence
- Deploying websites using Microsoft Azure
- Contextualizing data

TOOLS

- *Analysis:* Python
- *Backend:* C++, Java, PHP
- *Cloud:* Azure
- *Front-end*: *JavaScript*, HTML, CSS
- *Libraries:* pandas, NumPy, seaborn, STL, JavaFX
- *Storage:* SQL
- *Version Control*: GitHub

CERTIFICATES

IBM Data Science Professional Certificate

- Learned about Python libraries: pandas, NumPy, seaborn, matplotlib, and ML libraries
- Worked with basic R Programming for data analysis
- Utilized Python for data analysis using popular libraries
- Worked with the countless possibilities a relational database like SQL has, ranging from JOINs and SELECTs, to stored procedures
- Received certificates in Python, SQL, Machine Learning, and the data scientist responsibilities

PROJECTS

Evaluating the Relationship between the Stock Market and External Conditions

- Created a model to answer two primary questions: Do external factors affect the stock market? If so, how much is performance affected. Secondly, are stock prices an indicator of the environment?
  - Cleaned datasets with over 300 thousand datapoints
  - Maintained data integrity through predicting important NaN values.

Music Application using JavaFX

- Built a music application with features like undo, skip, play next, queue, etc
  - Utilized stacks, queues, LinkedList
  - Gathered a musical dataset online to populate my musical "database" through file parsing

Rensselaer Polytechnic Institute Marketplace

- Web application made for RPI students to sell and buy items within their community
  - Frontend: HTML, CSS, JavaScript
  - Backend: PHP, SQL
  - LAMP Stack deployed using Microsoft Azure

RELEVANT COURSEWORK

Intro to Machine Learning Applications: Python, pandas, numPy, Scikit-learn

- Furthered developed my understanding of machine learning concepts ranging from regression to CNN's
  - Cleaned provided datasets for model development on topics like predicting cancer in smokers

Data Structures*:* C++, Java, STL, java.util

- Learned about core data structures like stacks, queues, LinkedList, etc

Computer Science I: Python, parsing JSON, and other data formats

- Learned basic programming principles

Multivariable Calculus & Matrix Algebra

- Learned pivotal concepts applicable to machine learning like gradients & gradient descent, matrices (Markov's, incidence, etc)

Calculus I & II: Methods of integration, (partial) derivatives, series

- Learned many techniques to perform optimizations, efficient calculations and create a foundation for linear algebra and gradient methods.

Web Systems Development & Introduction to ITWS*:* SQL, JavaScript, HTML/CSS, Bootstrap, JSON, PHP

- Learned the intricacies of web development through developing many web applications

LEADERSHIP & ACTIVITIES

RPI National Society of Black Engineers - *Chapter Member*

- Develops members into more professional and involved students, within the community and campus