#### Anthony J. Barrera

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#### EDUCATION

Loyola University Maryland Bachelor of Science in Computer Science Minor in Statistics

Baltimore, MD

New Jersey Institute of Technology Master of Science in Computer Science

#### COMPUTER SKILLS

Languages (Intermediate-Advanced knowledge): Python, Java, JavaScript, C, C++
Related Tech: HTML, React Native, React, js, Pytorch, TensorFlow, Torch, Keras, Gym, Gymnasium, Sklearn, Oracle, Mongo DB, Solidity, Hardhat
Software: Skilled in Adobe photoshop, Adobe Premiere Pro, MobaXterm, Clion, Intellij IDEA, JetBrains PyCharm, jGRASP, Visual Studio Code, Android Studio, Oracle, XAMPP, SQL Developer, Arduino IDE
Operating Systems: Windows 10, Mac OS

#### COMPLETED COURSEWORK

Software Engineering/ Microprocessor-Based Systems/ Machine Learning/ Quantum Computing/ Cryptocurrencies and Blockchain/Computer Science Project / Discovering Information in data/ Operating Systems Design/ Data Management Systems Design/ Internet and Higher layer Protocols/ Artificial Intelligence/ Reinforcement Learning / Machine Learning/ Data Mining/ Deep Learning/ Natural Language Processing

#### PROFESSIONAL EXPERIENCE

#### USA Hockey

Hockey Referee

- 6 years' experience obtaining Level 3 certification (ages 5 to 18) Communicate professionally with players, coaches, and parents Ensuring all USA Hockey rules are implemented

- Loyola University Maryland
  Information Technology Support Specialist

  Analyze, troubleshoot, and evaluate technology issues for 5,000 students and 3,500 staff

  Provide support and assistance to keep campus technology optimized and running efficiently
  Streamline repair processes and update procedures for hardware and software
  Configured hardware, devices, and software to set up workstations for students and faculty.

- New Jersey Institute of Technology
  User Services Support Specialist

  Analyze, troubleshoot, and evaluate technology issues for students and faculty on Campus
  Provide support and assistance to keep campus technology optimized and running efficiently
  - Configured hardware, devices, and software to set up workstations for students and faculty

#### PROJECTS

### Software Engineering Project - https://github.com/AnthonyBarrera116/SEP-GROUP Mobile App - Recreational Football Mobile App for recreational football Mobile App for recreational football

- Make Teams, Coaches, Players, Games Tech stack: MongoDB, React Native, JavaScript

### enior Project - https://github.com/AnthonyBarrera116/Senior-Project or <u>Website</u> Calculator for Finance (Time Value of Money, Bonds, Stocks, Capital Budgeting)

- User, History, Calculations Tech stack: MongoDB, HTML, JavaScript

## Zoo Database Project - https://github.com/AnthonyBarrera116/DATA-Manage Making of a 200 database of SQL, Front-End, Back-End and HTML Pages Website for signing into database Several functions like adding new employee, animal and more Tech stack: HTML, Python, XAMPP

# AI-Stock Project - https://github.com/AnthonyBarrera116/AI-Stock Making of Model to predict future stock • Two Scaler programs Standard and Min Max • Four different Ideas of predicting future stock • Open Close • Open Close Skledern

- - - Open Up Down Close
    - Open High Low Close

## CNN Animal Classification - <a href="https://github.com/AnthonyBarrera116/Image-animal-classification">https://github.com/AnthonyBarrera116/Image-animal-classification</a> <a

### Apriori Algorithm, Brute Force, Association Rules - <a href="https://github.com/AnthonyBarrera116/Apiroi-Alg">https://github.com/AnthonyBarrera116/Apiroi-Alg</a> Making of <a href="https://github.com/AnthonyBarrera116/Apiroi-Alg">https://github.com/AnthonyBarrera116/Apiroi-Alg</a> Online of Apriori transactions Onl

- Support Calculating Association Rules of Transactions

# K means and Hierarchical Clustering - <a href="https://github.com/AnthonyBarrera116/kmeans-Hierac-clustering/tree/main/Kmeans clustering and Hierarchical from scratch and calculates silhouette">https://means clustering from scratch</a> K means clustering from scratch Hierarchical clustering from scratch Calculates silhouette and shows which is better

### Image classification using CNN model from Scratch - https://github.com/AnthonyBarrera116/Image-animal-classification

Making of CNN Model from scratch to classify animal images

Making of CNN from scratch using Pytorch

- Uses animal images of 90 different animals

## NLP Study - https://github.com/AnthonyBarrera116/NLP-BERT-Study Study of BERT, Logistic Regression, SVC and etc using Sklearn and building of BERT, Logistic and SVC from scratch Learning to build BERT, Logistic Regression, and SVC from scratch for Text Classification Using Sklearn of BERT, Logistics Regression, SVC and other models Study to make a better BERT from scratch versus sklearn library

### Hockey Prediction of Games- https://github.com/AnthonyBarrera116/Hockey-Predictions Web scraping data from Hockey Reference and training AI Model Using Beautiful Soup Libraries to Web Scrape Public knowledge of Hockey Reference

- - Using Putorch and nn layers to train model

  - Organizing data from html file to make data frames

September 2019 - May 2023 September 2019 - May 2023 Newark, NJ

September 2023 – December 2024

Various Rinks in NJ

July 2016 - September 2022

Baltimore, MD

September 2019 - May 2023

Newark, NJ October 2023 – December 2023

Loyola University Maryland September 2022 – December 2022

Loyola University Maryland January 2023 – May 2023

Loyola University Maryland January 2023 – May 2023

New Jersey Institute of Technology September 2023 – December 2023

New Jersey Institute of Technology

January 2024 –May 2024

New Jersey Institute of Technology May 2024 –August 2024

New Jersey Institute of Technology May 2024 –August 2024

New Jersey Institute of Technology May 2024 -August 2024

New Jersey Institute of Technology

September 2024 - December 2024

New Jersey Institute of Technology September 2024 - December 2024

Personal Time December 2024 - Ongoing (January 2025)