Anthony J. Barrera

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GitHub: <u>AnthonyBarreral16 - https://github.com/AnthonyBarreral1</u> Website: <u>https://anthonybarreral16.github.io/Ajbarr.github.io/</u>

Age: 24



Loyola University of Maryland

B.S Computer Science Minor: Statistic

New Jersey Institute of Technology

M.S Computer Science

Baltimore, MD September 2019 - May 2023 September 2019 - May 2023

Newark, NJ September 2023 – December 2024

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

Chille

- Programming Languages (Advanced): C, C++, JavaScript, Python
- · Programming Languages (Intermediate): SQL, Java
- · Programming Languages (Basic): Ruby, Solidity
- · Related Technology:
 - **App**: React Native
 - Website: HTML, React.js
 - **Web 3:** Solidity, Hardhat, React.js
 - Database: Oracle, Mongo DB
 - AI: Pytorch, TensorFlow, Torch, Keras, Gym, Gymnasium, Sklearn

Various Rinks in NJ July 2016 – September 2022

Baltimore, MD September 2019 – May 2023

Newark, NJ October 2023 – December 2023 **Software Engineering Project -**

https://github.com/AnthonyBarrera116/SEP-GROUP

Mobile App – Recreational Football

- Mobile App for recreational football
- Make Teams, Coaches, Players, Games
- Tech stack: MongoDB, React Native, JavaScript

Senior Project

FI320 Calculator Website - https://github.com/AnthonyBarrera116/Senior-Project

- Calculator for Finance (Time Value of Money, Bonds, Stocks, Capital Budgeting)
- User, History, Calculations
- Tech stack: MongoDB, HTML, JavaScript

Crypto Token Project - https://github.com/AnthonyBarrera116/Coin

Making ERC-20 Token and Faucet - https://anthonybarrera116.github.io/Coin/

- Website Faucet to drip an ERC-20 token
- Deploying contract on Sepolia Testnet
- Tech stack: Node.js, React.js, Solidity, Hardhat, JavaScript

Zoo Database - 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
 - o Open Close Sklearn
 - o Open Up Down Close
 - o Open High Low Close

CNN Animal Classification -

https://github.com/AnthonyBarrera116/Image-animal-classification

<u>CNN Model</u> making and testing between Own s a MobileNet

- CNN Model made from tensorflow GPU
- CNN model using MobileNet
- Animal Classification with Probability

Apriori Algorithm, Brute Force, Association Rules -

https://github.com/AnthonyBarrera116/Apiroi-Alg

Making of <u>Association Rules</u> using support and confidence of Apriori transactions

- Confidence Calculating
- Support Calculating
- Association Rules of Transactions

K means and Hierarchical Clustering -

https://github.com/AnthonyBarrera116/kmeans-Hierac-clustering/tree/main

K means clustering and Hierarchical from scratch and calculates silhouette

- 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

Loyola University Maryland September 2023 – December 2023

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

NLP BERT 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 Pytorch and nn layers to train model

CS 496: Senior Project

Organizing data from html file to make data frames

New Jersey Institute of Technology September 2024 – December 2024

Personal Time December 2024 – Ongoing

Courses

•	CS 482: Software Engineering	Loyola University Maryland

• CS 484: Machine Learning Loyola University Maryland

• CS 489.01: Intro to Quantum Computing Loyola University Maryland

CS 489.02: Cryptos and Blockchain Loyola University Maryland

• CS 403: Discovering Info in Data Loyola University Maryland

• CS 479: Intro Microprocess-Based Systems Loyola University Maryland

• CS 630: Operating Systems Design Loyola University Maryland

CS 656: Internet and Higher Layer Protocols
 New Jersey Institute of Technology

CS 631: Data Management Systems Design

New Jersey Institute of Technology

DS 669: Reinforcement Learning

New Jersey Institute of Technology

CS 670: Artificial Intelligence

New Jersey Institute of Technology

CS 610: Data Structures and Algorithms

New Jersey Institute of Technology

DS 634: Data Mining
 New Jersey Institute of Technology

DS 675: Machine Learning
 New Jersey Institute of Technology

DS 677: Deep Learning

New Jersey Institute of Technology

DS 680: Natural Learning Processing

New Jersey Institute of Technology

New Jersey Institute of Technology