

Anthony J. Barrera

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GitHub: [AnthonyBarrera116](https://github.com/AnthonyBarrera116) - <https://github.com/AnthonyBarrera116>

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Age: 22



Education

Loyola University of Maryland

B.S Computer Science

Minor: Statistic

Baltimore, MD

September 2023 - May 2023

September 2023 - May 2023

New Jersey Institute of Technology

M.S Computer Science

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

Various Rinks in NJ

July 2016 – September 2022

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.

Baltimore, MD

September 2019 – May 2023

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.

Newark, NJ

October 2023 – December 2023

Skills

- **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

Projects

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

Loyola University Maryland
September 2022 – December 2022

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

Loyola University Maryland
January 2023 – May 2023

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

Loyola University Maryland
January 2023 – May 2023

Zoo Database - <https://github.com/AnthonyBarrera116/DATA-Manager>

Making of a zoo 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

New Jersey Institute of Technology
September 2023 – December 2023

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 Sklearn*
 - *Open Up Down Close*
 - *Open High Low Close*

New Jersey Institute of Technology
January 2024 – May 2024

CNN Animal Classification - <https://github.com/AnthonyBarrera116/Image-animal-classification>

CNN Model making and testing between Own's a MobileNet

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

New Jersey Institute of Technology
May 2024 – August 2024

Apriori Algorithm, Brute Force, Association Rules - <https://github.com/AnthonyBarrera116/Apiroi-Alg>

Making of Association Rules using support and confidence of Apriori transactions

- *Confidence Calculating*
- *Support Calculating*
- *Association Rules of Transactions*

New Jersey Institute of Technology
May 2024 – August 2024

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*

New Jersey Institute of Technology
May 2024 – August 2024

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*

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*

New Jersey Institute of Technology
September 2024 – December 2024

Courses

- *CS 496: Senior Project*
- *CS 482: Software Engineering*
- *CS 484: Machine Learning*
- *CS 489.01: Intro to Quantum Computing*

Loyola University Maryland

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• <i>CS 489.02: Cryptos and Blockchain</i>	Loyola University Maryland
• <i>CS 403: Discovering Info in Data</i>	Loyola University Maryland
• <i>CS 479: Intro Microprocess-Based Systems</i>	Loyola University Maryland
• <i>CS 630: Operating Systems Design</i>	New Jersey Institute of Technology
• <i>CS 656: Internet and Higher Layer Protocols</i>	New Jersey Institute of Technology
• <i>CS 631: Data Management Systems Design</i>	New Jersey Institute of Technology
• <i>DS 669: Reinforcement Learning</i>	New Jersey Institute of Technology
• <i>CS 670: Artificial Intelligence</i>	New Jersey Institute of Technology
• <i>CS 610: Data Structures and Algorithms</i>	New Jersey Institute of Technology
• <i>DS 634: Data Mining</i>	New Jersey Institute of Technology
• <i>DS 675: Machine Learning</i>	New Jersey Institute of Technology
• <i>DS 677: Deep Learning</i>	New Jersey Institute of Technology
• <i>DS 680: Natural Learning Processing</i>	New Jersey Institute of Technology