Anthony J. Barrera
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EDUCATION

Loyola University Maryland   Baltimore, MD
Bachelor of Science in Computer Science   September 2019 - May 2023
Minor in Statistics   *September 2019 - May 2023*

New Jersey Institute of Technology   Newark, NJ
Master of Science in Computer Science   September 2023 - Present

COMPUTER SKILLS
Languages (Intermediate-Advanced knowledge): Python, Java, JavaScript, C, C++
Related Tech: HTML, React Native, React.js
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

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PROFESSIONAL EXPERIENCE

USA Hockey   Various Rinks in NJ
Hockey Referee   July 2016 – September 2022
- 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   Baltimore, MD
Information Technology Support Specialist   September 2019 – May 2023
- 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   Newark, NJ
User Services Support Specialist   October 2023 – December 2023
- 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   Loyola University Maryland
Mobile App – Recreational Football   September 2022 – December 2022
- Mobile App for recreational football
- *Make Teams, Coaches, Players, Games*
- Tech stack: MongoDB, React Native, JavaScript

Senior Project - https://github.com/AnthonyBarrera116/Senior-Project   Loyola University Maryland
FI320 Calculator Website   January 2023 – May 2023
- *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   Loyola University Maryland
Making ERC-20 Token and Faucet - https://anthonybarrera116.github.io/Coin/   January 2023 – May 2023
- *Website – Faucet to drip a ERC-20 token*
- *Deploying contract on Sepolia Testnet*
- Tech stack: Node.js, React.js, Solidity, Hardhat, JavaScript

Zoo Database Project - https://github.com/AnthonyBarrera116/DATA-Manage   New Jersey Institute of Technology
Making of a zoo database of SQL, Front-End, Back-End and HTML Pages   September 2023 – December 2023
- *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   New Jersey Institute of Technology
Making of Model to predict future stock   January 2024 –May 2024
- *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*

CNN Animal Classification - https://github.com/AnthonyBarrera116/Image-animal-classification   New Jersey Institute of Technology
CNN Model making and testing between Own s a MobileNet   May 2024 –August 2024
  - *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   New Jersey Institute of Technology
Making of Association Rules using support and confidence of Apriori transactions   May 2024 –August 2024
  - *Confidence Calculating*
  - *Support Calculating*
  - *Association Rules of Transactions*

K means and Hierarchical Clustering - https://github.com/AnthonyBarrera116/kmeans-Hierac-clustering/tree/main   New Jersey Institute of Technology
K means clustering and Hierarchical from scratch and calculates silhouette   May 2024 –August 2024
  - *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*   New Jersey Institute of Technology
Making of CNN Model from scratch to classify animal images   September 2024 –December 2024
  - *Making of CNN from scratch using Pytorch*
  - *Uses animal images of 90 different animals*

NLP Study – https://github.com/AnthonyBarrera116/NLP-BERT-Study   New Jersey Institute of Technology
Study of BERT, Logistic Regression, SVC and etc using Sklearn and building of BERT, Logistic and SVC from **scratch**   September 2024 –December 2024
  - *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*