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EDUCATION

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

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

New Jersey Institute of Technology
Master of Science in Computer Science

Newark, NJ
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

PROFESSIONAL EXPERIENCE

USA Hockey

Hockey Referee

Various Rinks in NJ
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

Information Technology Support Specialist

Baltimore, MD
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

User Services Support Specialist

Newark, NJ
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>

Mobile App – Recreational Football

Loyola University Maryland
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>

FI320 Calculator Website

Loyola University Maryland
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>

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

Loyola University Maryland
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>

Making of a zoo database of SQL, Front-End, Back-End and HTML Pages

New Jersey Institute of Technology
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>

Making of Model to predict future stock

New Jersey Institute of Technology
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>

CNN Model making and testing between Own s a MobileNet

New Jersey Institute of Technology
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/Apriori-Alg>

Making of Association Rules using support and confidence of Apriori transactions

New Jersey Institute of Technology
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>

K means clustering and Hierarchical from scratch and calculates silhouette

Jersey Institute of Technology
May 2024 – August 2024

- K means clustering from scratch
- Hierarchical clustering from scratch
- Calculates silhouette and shows which is better