Brandon Luton

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EDUCATION

Bachelor of Science in Computer Science   May 2024
University of Maryland, Baltimore County (UMBC) | GPA: 3.9
- o Artificial Intelligence/ Machine Learning Track
- o Data Science Track

COURSEWORK

Introduction to Artificial Intelligence , Database Management Systems, Software Engineering 1, Introduction to Machine Learning, Design and Analysis of Algorithms

SKILLS

Programming: Python, C, C++, Java, R
Data Science: SQL, R
Tools: GIT, Microsoft Office

WORK/INTERNSHIP EXPERIENCE

Undergraduate Research Assistant, *UMBC Ebiquity Lab*   Fall 2023
- o Performed various privacy attacks on generative tabular data

Student Trainee, *Naval Surface Warfare Center, Indian Head*   Summer 2023
- o Created a new input method to generate meshes used by simulation code
- o Created a Python interface to interact with legacy Fortran code
- o Installed and evaluated external libraries and their use to the mission

IT Intern, *Charles County Sheriff's Office*   Summer 2022
- o Assisted specialist in helping to solve technical issues in the agency
- o Performed software/hardware installations and asset destruction on older machines

PROJECTS

Software Engineering 1
- o Collaborated in a team of five to develop a web app to display crime statistics of the city of Baltimore
- o Duties included UI design with HTML and CSS and utilizing the JavaScript library Leaflet to create an interactive map

Database Management Systems
- o Used SQL to create a database of books to act as a mock library system
- o Created a simple HTML web application to navigate the database

Introduction to Machine Learning
- o Utilized Python to code and implement a gradient descent algorithm and a k-means clustering algorithm from scratch.