

Emma Azzi

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EDUCATION

University of Massachusetts, Amherst | B.S in Computer Science and Data Science, Minor in Economics May 2025
Member of Commonwealth Honors College | Dean's List (Fall 2021, Spring 2022, Spring 2023) | GPA: 3.7/4.0

- Honors and Awards: Hack(H)er413 "Best Use of an AI Model", Dean's Scholarship Award, ALAA scholarship recipient
- Activities: UMass Club Soccer (A team), CICSofT, Machine Learning club, LeetCode Club, Arab Cultural Association

COURSEWORK

Intro to Algorithms, Data Structures, Programming Methodologies, Reasoning Under Uncertainty, Mathematical Proofs: A Computer Science Perspective (H), Calc I/II/III (H), Intro to Computation (Discrete Math), Computer Systems Principles, Statistics I, Differential Equations, Intro to Linear Algebra, Intro to Microeconomics, Intro to C Programming Language

EXPERIENCE

Undergraduate Course Assistant Amherst, MA
Manning College of Information and Computer Sciences Dec. 2022 - Present

- Proctor and grade assignments for weekly class sessions of 200+ students
- Host weekly Office Hour sessions to answer students' questions and cater to educational needs
- (Fall 2023) Currently serving as UCA for CS110: Foundations of Programming: introduction to fundamentals of computing and programming using Python
- (Spring 2023) Served as UCA for CS187: Programming with Data Structures: design, use, and analysis of important data structures, as implemented in the Java programming language

Undergraduate Research Volunteer Amherst, MA
Manning College of Information and Computer Sciences June 2023 – August 2023

- Investigated the characteristics and transformative capabilities of smart home technology for carbon emission reduction
- Identified and compiled a list of prevalent households IoT devices that can significantly contribute to carbon reduction and pinpointed those with the most pronounced potential
- Designed a python algorithm to dynamically calculate carbon footprint based on energy usage data using Pandas library and Jupyter Notebook environment

Academic Peer Tutor Amherst, MA
Learning Resource Center May 2022 – Jan 2023

- Provided students with course-specific academic support for COMPSCI 121, COMPSCI 187, MATH 100, MATH 104, and MATH 131 in individualized settings at the Learning Resource Center.
- Offer support to over 5,000 peers and demonstrate skills such as listening, critical thinking and assessment

PROJECTS

ASL (ArtificialSignLanguage) ****Nominated "BEST USE OF AN AI MODEL" by Travelers Insurance****

- Implemented a computer vision and deep learning system to recognize and classify hand gestures into their corresponding ASL signs using convolutional neural networks (CNNs).
- Trained the model on a dataset of ASL signs using Keras an open-source neural network library through Google Teachable Machine
- Skills: Python, TensorFlow, Computer Vision, Deep Learning, Keras, Git, Collaborative Development

SKILLS

Languages (by level of comfort): Java • JavaScript • Python • C/C++ • HTML/CSS • Swift

Developer Tools and Environments: Git • Node.js • LATEX • Visual Studio • Vim • Jupyter Notebook • XCode

Frameworks: Angular

Libraries: datascience • Pandas • NumPy • Matplotlib • TensorFlow • Keras

Soft Skills: Problem-Solving • Teamwork • Logical Thinking • Communication

Other: Data Structures • Object Oriented Programming • Calculus • Statistics • Trilingual (Arabic, French, English)