ABDELAZIM LOKMA

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https://abdelazimlokma.github.io/

EDUCATION

Boston University   Boston, MA

Masters, Artificial Intelligence - Cumulative GPA : 3.75 / 4.0   Sep 2023 - Dec 2024

Relevant Coursework: Graduate Object Oriented Programming, Full Stack Development, Software Engineering, Mobile App Development, Graduate Databases.

Boston University   Boston, MA

Bachelor of Arts and Sciences, Majoring in Computer Science   May 2023

Minoring in Business Administration

PROJECTS

Sign Language Identification Program - Computer Vision Project   Mar 2024

- Spearheaded design and implementation of an algorithm to recognize American Sign Language (ASL) gestures using template matching and circularity measurement techniques.
- Achieved a greater than 90% classification accuracy in ASL gesture recognition

Simple DBMS - Software Development Project (C++)   Nov 2023

- Developed a custom Database Management System (DBMS) in C++ with core components such as heap files for data storage, a buffer pool for caching, and a metadata catalog.
- Implemented B+Tree indexing for efficient data retrieval and optimized join operations and aggregate functions.

Fit-Gen - Software Development Project (Android Studio/Java)   Dec 2022

- Co-created an Android app to efficiently catalog a user's clothing inventory, leveraging fundamental fashion principles and external factors to curate personalized outfits.
- Orchestrated the design and implementation of the algorithm responsible for digitizing clothing items & generating fashionable outfits within the app's functionality.

Smart Pantry - Software Development Project (Java)   December 2021

- Collaborated with teammates to design a java program that can track expiry dates of recently bought groceries and notify the user when items are soon to expire.
- Expanded on the project by adding a recipe book such that the app can recommend recipes using items that are soon to expire.

EXPERIENCE

Teaching Assistant - CS 611 Graduate O.O.P in Java   Sep 2024 - Present

Boston University   Boston, MA

- Taught and mentored over 20 graduate students in lab sessions, providing guidance on Object-Oriented Programming concepts in Java.
- Collaborated with the course instructor to influence course design, helping to shape lab exercises and assignments to better align with learning objectives.

Summer Intern   Jul 2021 - Aug 2021

Dell Egypt   Cairo, Egypt

- Acquired comprehensive training in Al, 5G, and DevOps, expanding knowledge and proficiency.
- Led the mock project "E7keeli" to provide online therapy access for middle to lower working class Egyptians, presenting it to DELL Egypt executives.

SKILLS

- Java, Python (Pandas, PyTorch, HuggingFace, NumPy), C++, SQL, Git
- Multilingual: Arabic (Native), English (Fluent), French (Conversational)