Ali Akram

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EDUCATION

University of Houston
Bachelor of Science in Computer Science Expected Aug 2024

Lonestar College Cy-Fair
Associate of Science in Biology May 2020

SKILLS

Programming: Intermediate Level in C++, Data Structures & Algorithm, and Python
Software: Microsoft Office
Languages: Multilingual in English, Urdu, Hindi, and Punjabi

JOB EXPERIENCE

Image Reviewer, Trans Core and HCTRA**,** Contracted by A-1 Personnel Dec 2021 – Jun 2023

- Identified and reviewed the license plates (all 50 states) and then accepted or rejected them.
- Monitored picture quality of the license plates and application performance for potential problems.
- Worked as a team for HCTRA toll-road project to help with toll collection process.

Curricular Support, University of Houston College of Medicine Sept 2021 – Oct 2021

- Recorded and scheduled teaching sessions on Microsoft Teams.
- Provided technical and curricular support for faculty and staff.
- Assisted professors with the use of MS Office and other software for medical education.

Internship, University of Houston Undergraduate Summer Shadowing Program Summer 2021

- Shadowed doctors at clinics and played a supportive role in providing patient care.
- Gained knowledge about the medical school application, curriculum, and financial responsibilities.
- Identified social determinants of health and presented solutions at the closing ceremonies.
- Advocated for the patients in underserved communities through modeling solutions & interventions.

Research Assistant, Ecology Lab, University of Houston Sept 2020 – May 2021

- Helped researchers with weighing, sorting, and sampling plant species.
- Maintained lab areas to industry standards of cleanliness, helped set up projects & managed inventory.
- Aided researchers in the research projects set ups and provided continuous support throughout.
- Assisted researchers with NSF research project conducted on soil-microbe interaction along climate gradients by weighing, sorting, and sampling plants.

ACADEMIC PROJECTS

University of Houston

Multi-Linked Sparse Matrix in C++, https://replit.com/@AliAkram3/MultiLinkedListSparseMatrix Spring 2023

- Converted 2 simple matrix into sparse matrix using linked list connected in all directions with the ability to multiply, add, and transpose on the new sparse matrix through operator overloading.

Chess Game Data Organizer in C++, https://replit.com/@AliAkram3/CHESS-GAME-ORGANIZER Fall 2022

- Designed a program to read input including ranking, wins, losses, names, and other player information and randomly creates a tournament schedule, which updates players' rankings on FIDE rules, stats based on match result entries, and outputs the data into the file for future use.

Maze Generator & Solver in C++, https://replit.com/@AliAkram3/MazeGeneratorProgram Spring 2023

- Created a program utilizing the graph data structure with Prim's and Kruskal's Algorithm to generate a maze based on the unique seed number and algorithm chosen by the player with an automatic solution using BFS search method displayed on the screen.

EXTRACURRICULAR ACTIVITIES

Volunteer Tutor, Lonestar College Cy-Fair Fall 2019

- Advised and instructed approx. 7 college students in basic general chemistry concepts.
- Helped students in identifying and finding productive strategies for studying.