

# 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++, JavaScript, HTML, CSS, PostgreSQL(basic) and Python

**Tools** React.js, Node.js, Express.js Data Structures & Algorithm, 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 2024

This is my personal front-end web application that is created using React and JavaScript. The Face-Detector portal is connected to a Clarifai-API. The Backend which will be built using Node.js/Express.js and PostgreSQL for this project is still under construction

**Robot Friends** <https://alakram01.github.io/rr/>

Spring 2024

- This is my personal frontend application is built using React and JavaScript. It implements a search function and updates the interface accordingly. Each Robot takes you to the link related to the name of the robot.

**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.