

Ali Akram

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EDUCATION

University of Houston

Bachelor of Science in Computer Science

December 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 Data Structures & Algorithm, React.js, Node.js, Express.js, Microsoft Office

Languages Multilingual in English, Urdu, Hindi, and Punjabi

Certifications Udemy Web Development Course

JOB EXPERIENCE

Image Reviewer, Trans Core and HCTRA, Contracted by A-1 Personnel

Dec 2021 – Current Job

- 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.

PERSONAL PROJECTS

Portfolio: <https://portfolio01-q37w.onrender.com>

Face-detector App

Spring 2024

- Created a full-stack web application with frontend built using React and JavaScript and backend built using Node.js/Express.js and PostgreSQL database. App lets user register, sign-in, see entries count and submit image address (image URL) for face detection. The app has integrated Clarifai API that responds with useful data after submitting image address, that is then used to draw a box around the face in the image.
Note: Sign in & register might take somewhere between 5sec to 50sec time because I choose non-paid database & server option while deploying my app.

Robo Friends App

Spring 2024

- Created a frontend application that is built using React and JavaScript. It implements a basic search function and updates the interface accordingly. Each Robot takes you to the link related to the name of the robot. The idea behind this application is of AI assistance that can be integrated with other applications.

ACADEMIC PROJECTS

University of Houston

Maze Generator & Solver in C++

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.

Multi-Linked Sparse Matrix in C++

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.