

RAYYAN M RAHMAN

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EDUCATION

The University of Houston, Houston, TX

May 2024

Bachelor of Science in Computer science

GPA: 3.5

Relevant Coursework: Data Science, Data Structures & Algorithms, Fundamentals of Software Engineering, Databases, Software Design

SKILLS

Programming Languages: C/C++, Python, HTML & CSS, SQL, R, Flutter/Dart, JavaScript, Bash

Libraries/Frameworks: Express.js, React.js, Node.js, Bootstrap, Jest, Pandas, SciKit, TensorFlow

Tools: Firebase, MySQL, MongoDB, AWS, Azure, Power BI

Certifications: Google IT Support(2022), AWS Cloud Practitioner(2023 – 2026), AWS Developer Associate (In progress)

PROJECTS

Face Recognition Program

- Designed and developed a Python-based face recognition system with a user-friendly GUI, utilizing deep learning- based face detection (MTCNN).
- Leveraged machine learning and computer vision concepts to preprocess images, detect faces, and perform facial recognition.
- Demonstrated proficiency in Python, deep learning frameworks, image processing, and GUI development by creating a functional application that displays knowledge of AI and machine learning to recognize faces.

Hotspot Discovery & Solar Intensity Analysis

- Analyzed solar flare data from the RHESSI mission to identify flare hotspots and intensities and learn about their characteristics, using R programming for data analysis and exploration.
- Applied R's statistical and visualization tools to uncover patterns in flare data, explore relationships between variables, and create informative visualizations.
- Developed clear and informative plots and maps to visualize flare hotspot distributions, solar flare intensities and share results effectively with others.

Post Office Website

- Contributed to the development of a user-friendly Post Office website as part of a group project. Specifically, designed and implemented the Node.js backend for efficient data processing and communication with a MySQL database, optimizing internal operations.
- Collaborated on building a dynamic and responsive website using React.js, ensuring a seamless user experience for the Post Office project.
- Leveraged my knowledge of CSS to contribute to the creation of a user-friendly and visually appealing interface for the Post Office website.

LEADERSHIP & COMMUNITY INVOLVEMENT

YM Houston, Houston, TX

Oct 2021 - Present

Officer

- Organized weekly activities for 30+ attendees, increasing engagement and positive reactions by 70%.
- Fostered development of 15+ individuals by providing regular guidance & advice, resulting in 85% of mentees achieving desired behavioral goals.
- Compiled meeting notes for 50+ sessions to be reviewed by executive team, contributing to an overall improvement of performance outcomes.