

SOHAIB RAJA

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Tomball, Texas 77375 • (832) 931-8240

EDUCATION

Texas A&M University Bachelor of Science in Computer Engineering May 2024
Minor: Cybersecurity
Current GPA: 3.73

Relevant College Coursework

CSCE 313 - Intro to Computer Systems *ECEN 350* - Computer Arch & Design *ECEN 314* - Signals and Systems
CSCE 221 - Data Structure and Algorithms *CSCE 120* - Program Design and Concepts *CSCE 222* - Discrete Structures of Computing
ECEN 214 - Electrical Circuit Theory *ECEN 248* - Introduction to Digital System Design *PHYS 207* - Electricity and Magnetism

EXPERIENCE

Texas A&M University – Student Assistant January 2022 – Current

- Providing undergraduate engineers exposure to applying classroom physics concepts in a laboratory setting
- Teaching students the needed physics concepts and analysis techniques to understand their observations
- Grading student's laboratory reports and ensuring their conclusions and reasonings are accurate

PERSONAL PROJECTS

3D Platformer in Unreal Engine 5 August 2022

- Implements the character movement and game mechanics using C++ for a cohesive gameplay experience
- Includes a dynamic respawn system and mobile obstacles to increase the difficulty of each level

Sorting Algorithm Visualizer May 2022

- Shows a visualization of common sorting algorithms such as insertion sort, merge sort, and quick sort
- Uses varying bar sizes to represent different integers and sorts the bars based on the chosen algorithm

Seam Carving Image Editor October 2021

- Utilizes the seam carving algorithm in C++ to resize an image and removed unnecessary seams in the image
- Takes in a .ppm file and outputs the edited picture after the algorithm is completed to the current directory

VOLUNTEER WORK

Assalam Clinic Volunteer – I.T. Specialist June 2017 – August 2020

- Welcomed new patients to the clinic and obtained the necessary information to create their patient profile
- Scanned and uploaded patient documents, such as prescriptions, onto the OneTouch EMR system
- Resolved issues with the clinic's desktop computers and essential medical equipment

SKILLS

Programming Languages: C++ (Intermediate), Python (Intermediate), HTML (Intermediate), CSS (Intermediate), JavaScript (Beginner), Verilog (Beginner)

Software: Microsoft Office (Intermediate), NI MultiSim (Intermediate), LTSpice (Intermediate), Autodesk Suite (Intermediate), Unreal Engine 5 (Intermediate), React (Beginner)

Operating Systems: Proficient with Windows, MacOS, and Linux

Languages: Fluent in English and Urdu

IMPORTANT LINKS

Personal Website: <https://www.sohaibraja.me/>

Personal Projects: <https://github.com/sraja1114>

LinkedIn: <https://www.linkedin.com/in/sohaib-raja-6a6805213/>