

# SOHAIB RAJA

sohaibraja@tamu.edu

Tomball, Texas 77375 • (832) 931-8240

## EDUCATION

<b>Texas A&amp;M University</b>	Bachelor of Science in Computer Engineering Minor: Cybersecurity Current GPA: 3.73	May 2024
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### Relevant College Coursework

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

## EXPERIENCE

<b>Texas A&amp;M University</b> – <i>Student Assistant</i>	January 2022 – Current
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- 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

<b>3D Platformer in Unreal Engine 5</b>	August 2022
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- 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

<b>Sorting Algorithm Visualizer</b>	May 2022
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- 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

<b>Seam Carving Image Editor</b>	October 2021
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- Utilizes the seam carving algorithm in C++ to edit 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

<b>Assalam Clinic Volunteer</b> – <i>I.T. Specialist</i>	June 2017 – August 2020
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- 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/>