

# SOHAIB RAJA

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## 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

*CSCE 221-* Data Structure and Algorithms  
*ENGR 102-* Engineering Lab I Computation  
*PHYS 206-* Newtonian Mechanics

*CSCE 120-* Program Design and Concepts  
*ECEN 214-* Electrical Circuit Theory  
*PHYS 207-* Electricity and Magnetism

*CSCE 222-* Discrete Structures of Computing  
*ECEN 248-* Introduction to Digital System Design  
*PHYS 217-* Electricity and Magnetism Lab

## EXPERIENCE

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

- Providing young engineers their first exposure to applying physics concepts in a laboratory environment
- Teaching students the needed physics concepts and analysis techniques to understand their observations
- Grading student's laboratory reports and ensuring their conclusions and reasoning are accurate

## PERSONAL PROJECTS

**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 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

**Tic-Tac-Toe Game** November 2020

- Allows the players to choose between a 3x3 and 5x5 tic-tac-toe game and the symbol that marks their move
- Implements all the rules of the Tic-Tac-Toe game and accurately determines the winner of the game

## 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

**Computer Skills:** Python (Intermediate), C++ (Intermediate), HTML (Intermediate), CSS (Intermediate)  
JavaScript (Beginner), Verilog (Beginner), MS Office (Intermediate), React (Beginner), Autodesk Suite  
(Intermediate), NI MultiSim (Intermediate), LTSpice (Intermediate)

**Operating Systems:** Proficient with Windows, MacOS, and Linux

**Languages:** Fluent in English and Urdu

## IMPORTANT LINKS

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

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

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