

# SOHAIB RAJA

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## EDUCATION

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<b>Texas A&amp;M University</b>	Bachelor of Science in Computer Engineering Minor: Cybersecurity Current GPA: 3.70	May 2024
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### Relevant College Coursework

<i>CSCE 331</i> – Foundations of Software Engineering	<i>ECEN 449</i> – Microprocessor System Design	<i>ECEN 325</i> – Electronics
<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>ECEN 214</i> – Electrical Circuit Theory

## EXPERIENCE

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<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

<b>Korbyn</b> – <i>Full-Stack Software Engineering Intern</i>	October 2022 – November 2022
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- Helped create a web app in Django that obtains various trending information from TikTok's creator website
- Used HTML, CSS, and JavaScript to build the user interface and integrate data pulled from a Python API
- Attended bi-weekly meetings to discuss progress on given tasks and collaborate with other developers

## PERSONAL PROJECTS

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<b>3D Platformer</b> – <i>Unreal Engine 5</i>	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> – <i>React.js</i>	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 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

## SKILLS

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**Programming:** C++ (Intermediate), Python (Intermediate), HTML (Intermediate), CSS (Intermediate), JavaScript (Beginner), ARMv8 Assembly (Beginner), Verilog (Beginner)

**Software:** Microsoft Office (Intermediate), NI MultiSim (Intermediate), LTSpice (Intermediate), Autodesk Suite (Intermediate), Unreal Engine 5 (Intermediate), Django Web Framework (Intermediate), React.js (Beginner)

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

**Languages:** Fluent in English and Urdu

## IMPORTANT LINKS

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

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

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