Mustafa Sohail

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ACADEMIC QUALIFICATION

Undergraduate, Habib University University

2020 - Present

- · Computer Engineering Major
- HU-TOPS Scholar (100% Scholarship)

Intermediate, Aga Khan Higher Secondary School

· Distinction Award for Highest Score in Mathematics

2018 - 2020

WORK EXPERIENCE

XovoTech Jun 2023 - Dec 2023

Junior React Developer

- Contributed significantly to the development and deployment of 3 dynamic React projects, successfully bringing them to live production.
- Collaborated closely with stakeholders in a team of 6 people to gather project requirements, ensuring understanding of their needs and delivering tailored solutions.
- Drove a versatile project involving the creation of multiple design and functionality variants for a single website while implementing responsive design principles.

Habib University

Undergraduate Researcher

Jun 2022 - Aug 2022

- · Collaborated and assisted professors with their research on integrating renewable energy for a flowmeter device.
- Conducted extensive literature review surrounding our research topic, presented various concepts extracted from these
 academic papers.
- Developed Simulation Models on Simulink and performed data analysis using MATLAB.
- Analyzed and Compared simulation and experimental results to evaluate the feasibility of implementing the project.

Teaching Assistant Aug 2021 - Dec 2021

- Aided the professor in organizing classes for a cohort of 30 students for Programming Fundamentals course.
- Organized weekly tutoring sessions to clarify student queries and help them with their projects.

ACADEMIC PROJECTS

Ray Tracing Engine

- Raytracing engine designed in C++ for Computer Graphics.
- Includes rendering scenes consisting of different primitives, materials, light sources and camera angles.
- · Sampling techniques and acceleration structures used to enhance rendered image and processing time respectively.

Single Cycle Processor

- Written and tested in verilog HDL for Computer Architecture.
- Modular components designed according to the RISC-V Architecture.

Flight Simulator

- Flight Simulator designed with a few controls (roll, pitch, yaw) and a basic environment written using WebGL.
- Dynamic Terrain with different viewing models and shaders rendered using rasterisation.

EXTRA-CURRICULAR ACTIVITIES

- · Member of Habib University Cricket Team '23-24
- Vice President, Gaming Club '22-23
- Deputy Director, Finance, HUMUN IV '22
- PIAIC (Presidential Initiative for Artificial Intelligence & Computing) Student for 4 quarters in 'Blockchain' and '4th Industrial Revolution' courses.
- Attended and Participated in IBA Leadership Conference '19
- Captained the college team to win a competition at GIKI Math Olympiad '18.

ADDITIONAL

- Certifications: Blockchain Specialization, University at Buffalo.
- Technical Skills: Python, C/C++, C#, JavaScript, MERN Stack, Solidity, Verilog HDL, MATLAB & Simulink, LaTeX.
- Language Skills: Fluent in English & Urdu (Native)
- Volunteer work: Campus Blood Drive, Habib University Bazm e Aqeedat Conference '20.