





# Muhammad Talha

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## EDUCATION

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**Habib University**  
*B.S. Computer Science*

September 2020 - June 2024

**Alpha College**  
*A-Levels*

September 2018 - August 2020

**Saint Michaels Convent School**  
*Primary - O levels*

September 2004 - September 2018

## EXPERIENCE

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**Systems Limited** | *Java Springboot*

August 2023 – September 2023

- Gained hands-on experience in Java, Spring Boot, and SOAP/REST API development during internships.
- Participated in client meetings to observe and learn about loose coupling principles and industry practices.

**Freelance** | *Web Developer (WordPress/Shopify)*

September 2021 – September 2023

- Designed and developed customized websites, communicating with clients throughout the process.
- Fixed a broken WordPress website with a corrupted database, ensuring smooth functioning, reducing time to first paint to 1.2s and loading time to be 300% faster and 90+ Google PageSpeed Score

## PERSONAL PROJECTS

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**Personal Home Lab and Smart Home Setup** | *YAML, Python, Docker,*

Ongoing

- Configured diverse services: Jellyfin, Home Assistant, Transmission Daemon with public access
- Managed Docker containers for efficient deployment

**Snake Xenzia Clone** | *FPGA, VERILOG, XILINX VIVADO*

September 2021

- Gate level recreation of the infamous snake game, with VGA video out and Cross Matrix USB Keyboard Interfacing for input.

**BomberMan Clone** | *C++, SDL2, SPRITE ANIMATIONS, POLYMORPHISM*

December 2021

- Recreated the famous bomberman game in C++ using SDL2 including sprite animations, and custom game mechanics
- Implemented OOP design patterns, polymorphism

**Sorting Visualizer** | *Python, Tkinter, Data Structures*

August 2022

- Developed a real-time sorting algorithm visualization tool using Tkinter, showcasing sorting algorithms' step-by-step processes to enhance understanding.

## SKILLS

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**Languages:** C/C++, Python, JavaScript, HTML/CSS, CUDA, SQL, L<sup>A</sup>T<sub>E</sub>X

**Tools:** Git/GitHub, Bash, Yaml, Docker, FASTAPI