





# Muhammad Talha

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## EDUCATION

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### Habib University

*B.S. Computer Science*

Sept 2020 - Current

### Saint Michaels Convent School

*Primary - O levels*

Sept 2004 - Sept 2018

## 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*

Sep 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*

May 2023 – Present

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

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

Aug. 2022

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

## 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.

### Web Developer | *Multiple Clients, Shopify, Wordpress*

September 2021 – September 2023

- Designed and developed customized websites from scratch, ensuring constant communication with clients throughout the process.
- Conducted detailed analysis of client requirements, leading to timely delivery of websites with 90+ Google PageSpeed Score.
- Fixed a completely broken WordPress website with a corrupted database, ensuring smooth functioning, reducing time to first paint to 1.2s and loading time to be 300% better
- Aesthetic Overhaul to appeal to modern audience

### Copywriter | *Multiple Clients*

2018 – Present

- Acted as Lead Copy Writer for USbased fitness apparel company SizeUp Apparel.
- Overhauled the catalogue copy for over 100+ products.
- Coming Up with exciting, engaging copy, and eye grabbing content to convert those leads to sales. (Freelance)

## SKILLS

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**Languages:** C/C++, Python, JavaScript, HTML/CSS, CUDA , SQL  $\LaTeX$

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