

# Syed Muhammad Taha

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## EDUCATION

### National University of Sciences and Technology

Sept 2022 – Jun 2026

BS. Computer Science

CGPA: 3.5

Key Courses: *Digital Logic Design, Data Structures and Algorithms, Assembly Language, Database Systems, Linear Algebra, Web Design and Development, Design and Analysis of Algorithms, CS50: Introduction to Computer Science*

## EXPERIENCE

### Web Developer at Elements

June 2024 -- Present

- Team Lead at Elements Learning as the **main web developer in the office** with one intern working in my mentorship.
- Worked on the **Home Website** of the company to showcase their product-line and mission statement to the world.
- Completed Full-Stack Website on **NextJS with Typescript**, following a given design to the pixel and implemented a dynamic blog section for users to visit, read and leave reviews.
- Made a **custom blog editor** that allows the company to upload blogs without the need for a developer in the middle.

### Full-Stack Web Development Intern at Adept Tech Solutions

Oct 2023 – Dec 2023

- Led a team of interns in making the **Main Dashboard** of the Statistical Analysis of “Jobs” done of Large Datasets.
- Worked in **legacy versions** of Angular (Frontend) and Java (Backend), and Github (Organizational Level) for version control.
- Impacted the company **design standards** to move towards a more modern and simplistic feel to their frontend.

## PROJECTS

### Reactify

April 2024 -- Present

- A **Drag and Drop (DnD) based website builder** that allows the user to make React Components without coding.
- Used **React, DnD-Kit, TypeScript, TailwindCSS, ShadCN, MongoDB and ExpressJS**. Aim make web development interactive.
- Ability to control the CSS and JSX of a React Component and **live rendering** with seamless **exporting and importing of code**.
- Allow the user to make an account and save their **custom components or classes** on the website for later use.
- **Pre-made templates** like Authentication **Forms and Dashboard Layouts** etc. for faster development and ease.
- **Generates React JSX Code with valid tailwind classes** for the user to seamlessly integrate into their project.
- **Live Code editor** to allow for small tweaks to the layout made using the DnD approach alongside a **file structure and layers**.

### NustFruta Website

March 2024

- Developed a **Full-Stack Ecommerce Website** for a local fruit-selling business in NUST University during Ramadan.
- Used **NextJS and MongoDB** as tech stack for the project and **shadcn and tailwind** for consistent and professional design.
- Hostelites could **place orders** scheduled for any date in the future. The vendors would get a sorted **list of orders**, the **inventory** needed for fulfilling a day's order, keep **account of all orders** fulfilled and **manage limited stock**.

### WaveGen

Sept 2023 -- Dec 2023

- Made a **Procedural Image Generation** website using React.js and p5.js with full control given to the user.
- Implemented Wave Function Collapse Algorithm with Backtracking ensuring state management and **long-term storage**.
- Optimized the Backtracking Algorithm by **Hashing “Connections” into JSON** format designed specifically for the project.
- Provided a **platform for game designers and creators to generate maps and layouts**, from making their own Tilesets and connecting them to fixing specific tiles in place and generating a constrained image around it.

### Board Games

Jan 2024 – March 2024

- Made 2D versions of **popular board games** like Quaridor, SuperTicTacToe and Connect4 for the web.
- Implemented a versatile **Socket connections and Back-end server** used for **live communication** online with other players.
- Ensured **responsiveness** for phones and laptops of any size, alongside **intuitive game controls** in both devices.

## VOLUNTEERING AND EXTRA CURRICULAR

### Innovation Challenge Futuremakers Fundraiser (Production Team Volunteer)

Nov 2023 -- Dec 2023

- Welcomed and Escorted keynote speakers and chief guests to their respective seats.
- Distributed the souvenirs to each of the attendees ensuring the quality of packages
- Engaged Actively with the Media Personnel and maintained a **positive brand image**

## SKILLS AND INTERESTS

**Skills:** JavaScript, TypeScript, PostgreSQL, Python, C, MongoDB, Node.js, Next.js, Java (Processing.org), p5.js, Excel

**Interests:** Chess, Basketball, Computer Architecture, Pixel Art, Table Tennis, card games