# Tawsif Mayaz

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## SKILLS

**Languages:** JavaScript, TypeScript, HTML/CSS, Python, Java, C/C++

**Frameworks:** Node.js, ReactJS, ExpressJS, VueJS, AngularJS, Vite, NestJS, ThreeJS, Framer Motion, Discord.js, TensorFlow, OpenCV

**Tools:** Git and Github, Visual Studio, Figma, Android Studio, Jira, MS Office Suite, Azure

## WORK

**Mhapy** | *Web Development Intern* Jan 2024 - Present
- Developed core functionalities for a patient-therapist matching website using **ReactJS** and **TailwindCSS**.
- Connected Mhapy's API using **NestJS** and **ExpressJS** on the backend. Leveraged user form inputs to provide personalized therapist recommendations, enhancing user satisfaction and matching accuracy.
- Utilized React **media queries** to craft responsive and visually captivating pages. Ensured optimal display across various devices and screen sizes, improving accessibility and user experience.
- Used **Figma** to plan and prototype user interface designs. Provided clear implementation guidance to ensure a consistent and intuitive user interface, aligning with project goals.

## EXTRACURRICULARS

**Electrium Mobility** | *Web Development Team* Jan 2024 - Present
- Enhanced the website using **ReactJS** and **TypeScript**, focusing on responsiveness, and accessibility.
- Simplified the application process for potential team members by developing a backend system using **Node.js** and **Express** that connects to a document for organizing applicants, ensuring a smooth experience and data security.
- Improved the Discord bot's functionality by creating a frontend for bot configurations and implementing a calendar event creator using **JavaScript** and **Discord.js** to enhance team communication and streamline event scheduling.

**UWOrbital** | *Firmware Team* Jul 2023 - May 2024
- Developed real-time software and drivers for TI RM46 microcontroller in **C** and **FreeRTOS**.
- Implemented responsive OS interrupt handling for temperature sensors like the LM75BD.
- Designed **I2C-based** sensor functions and UART data transmission for reliable system operation.

## PROJECTS

**Medium Clone** | *ReactJS, TailwindCSS* Apr 2024
- A clone of the Medium homepage made using **ReactJS**, **TailwindCSS**, **Radix UI**, **Lenis** and **Framer Motion**.

**Portfolio Website** | *React, Vite, ThreeJS, Framer Motion* Mar 2024
- A portfolio website made with **Framer Motion** for animations and **Three.js** for an interactive 3D scene.

**Microsoft Stock Price Prediction** | *Python, TensorFlow, Keras, Pandas, Matplotlib, Scikit-learn, NumPy* Mar 2024
- Utilized **Long Short-Term Memory** (LSTM) neural networks to predict the closing prices of Microsoft stock.

**Javascript Pacman** | *JavaScript, HTML, CSS* Feb 2024
- Developed a classic arcade-style Pac-Man game using **Vanilla JavaScript**.

**Dog Breed Identifier** | *Python, TensorFlow, Keras, OpenCV, Scikit-learn, NumPy, Pandas, Matplotlib* Jan 2024
- Created a program to classify dog images into breeds using a pre-trained ResNet50V2 model.
- Trained and fine-tuned the model on a labeled dataset with data augmentation and customized layers.

**Bricks Be Gone** | *Android, Java, Android Studio* Jan 2024
- Developed a classic brick breaker game for Android using **Java** and **Android Studio**.
- Implemented dynamic gameplay, collision detection, scoring system, health indicator, and game over handling.

## EDUCATION

**University of Waterloo** Sep 2023 - Present
*Bachelor of Applied Science, Electrical Engineering*