

# TUSHAR VAID

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## Work Experience

### Rework AI | Frontend Engineer Intern | MERN Stack

Mar' 2024 - Present

- Developed a secure **Role-Based Access Control (RBAC)** system at the backend and integrated frontend with it.
- I've seamlessly connected a coding environment using the **Monaco** editor and integrated it with **Judge0** for code execution.
- Implemented **input validation, sanitization, and user authentication** to enhance data security.
- Utilized data loaders, custom hooks, and **Redux** for optimized frontend performance and state management.
- Integrated AI models like Face Anti-spoof model , JD Matching , Speech to text model into our application.

## Skills

**Languages:** C++, JavaScript , HTML , CSS.

**Technical skills:** Data Structures and Algorithms, Node.js, Express, React.js , MongoDB, Nextjs (Beginner), AWS (Basics), Nodejs Microservice Architecture (Basics).

**Soft Skills:** Problem Solving, Teamwork , Communication , Leadership.

**Developer Tools:** Git, VS Code, Github.

## Education

### Thapar Institute of Engineering and Technology, Patiala, India

2020 - 2024

- Bachelor of Engineering (B.E) in Electronics & Communication | CGPA: **7.83/10**

(expected)

### Delhi Public School, Jammu

2019 - 2020

- *CBSE (Class XII), Aggregate: 89.6%*

### Delhi Public School, Jammu

2017 - 2018

- *CBSE (Class X), Aggregate: 85%*

## Projects

### E-commerce store

Jul'1 - current

*Tech Stack: Next.js, Payload CMS, Stripe.*

- Developing a fully functional E-commerce website using **Next.js and Payload CMS**, enabling a smooth and intuitive shopping experience.
- Integrated Stripe for secure and reliable payment processing, enhancing user trust and transaction security.

### Framer WebApp - [link](#)

Mar' 2024

*Visually appealing landing page built using React.js and Material-UI.*

- With **React and Material UI**, I engineered a visually captivating landing page, prioritizing optimized performance and expressive styling.
- Additionally, I utilized lazy loading, optimizations, 3D images, and emotion react for styling to enhance performance and create an engaging visual experience for visitors.

### Autonomous Weed Detection UAV (Capstone Project)

Dec' 2023

- My team developed an autonomous drone with a **Raspberry Pi** and camera to identify weeds in real time.
- We had worked on the navigation of the Drone and established the communication setup between the flight controller and the onboard computer.

### PGLife website

Aug' 2022

*A LAMP Stack Website using HTML, CSS, JavaScript, PHP where one can find the perfect accommodation.*

- Developed a responsive website to ensure optimal user experience across various devices.
- All the features like authorization, authentication and an interactive ui were taken into account.

## Academics and Extracurricular

- Conducted a live coding session to build and deploy a landing page for over **120 students** using Vercel.
- Successfully cleared the initial round of E-commerce and tech quiz of Flipkart Grid 5.0-Software Development Track'23.