

# Muhammad Usman Zafar

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## Summary

Experienced Full Stack Developer with over 5+ years of building dynamic and user-friendly web applications. Proficient across the full development lifecycle, leveraging React.js, Angular, JavaScript, Node.js, and TypeScript. Skilled in state management with Redux and integrating key third-party services like Firebase (authentication, databases, functions) and Stripe for payment processing. Adept at modern deployment practices, CI/CD implementation, and cloud hosting (AWS, AZURE, etc). Committed to developing scalable, maintainable, and high-performance solutions.

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## Skills

ReactJS, Angular, JavaScript, TypeScript, ExpressJS, Node.js, Bootstrap, Tailwind, CSS, MongoDB, HTML5, MySQL, Communication skills, Leadership, Project Development, OOP, Project Management, Problem Resolution, Firebase, UI/UX Design, Postman, GitHub, Payment Gateway, Stripe, SQL, MySQL, PostgreSQL, Express.js, Vercel, AWS, Azure, npm

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## Experience

### Smart moves Lab

Full Stack Developer, Lahore, Pakistan

01/2021 - Present

#### Projects:

##### 1- SPARTRANS

**Tech Stack:** React.js, Next.js, TypeScript, NextJS, Node.js

**Overview:** Developed and maintained a comprehensive admin panel for a transport and logistics platform, streamlining core operational processes with features such as driver scheduling (rooster), detailed duty planning, leave management, and user and role administration. Additionally, implemented specialized time-tracking capabilities for drivers to facilitate precise operational monitoring and improved resource management, enhancing process efficiency and supporting strategic decision-making across daily operations.

#### Challenges & Solutions:

- **Complex Scheduling Logic (Rooster & Duty Plan):**

*Challenge:* Implementing dynamic scheduling for drivers with shift overlaps, night duties, and route-based planning.

*Solution:* Designed a flexible scheduling algorithm that adapts to custom time blocks and integrates seamlessly with leave management and driver availability.

- **Time Tracking Accuracy:**

*Challenge:* Ensuring accurate logging of driver start/end time-tracking concerning planned vs. actual time, posing synchronization and validation issues.

*Solution:* Integrated real-time clock synchronization, added manual override options for supervisors, and developed automated validations with visual alerts for discrepancies.

- **User & Role Management Scalability:**

*Challenge:* Managing permissions for a growing number of user roles and operational staff.

*Solution:* Built a modular role-based access control (RBAC) system with a dynamic UI that adjusts permissions without code changes.

- **Leave Conflicts with Scheduling:**

*Challenge:* Leaves overlapping with duty plans created conflicts in daily operations.

*Solution:* Developed automated leave validation that flags conflicts during approval and suggests alternative duty reassignments.

- **Multi-Timezone & Shift Handling:**

*Challenge:* Dealing with drivers across different time zones and shift types (e.g., split shifts) led to inconsistencies in reporting.

*Solution:* Standardized all backend time operations to UTC and applied frontend timezone conversion logic for localization.

## 2- Deskvantage – User & Role Management System

**Tech Stack:** React.js, Next.js, TypeScript

**Overview:** Contributed to the development of Deskvantage, a multi-tenant user management module supporting diverse user types, including staff, clients, client sub-users, resellers, and reseller sub-users. Focused on implementing robust role and permission management to ensure secure and customizable access across all user levels.

### Challenge & Solution:

- **Managing Complex User Hierarchies:**

*Challenge:* Handling complex hierarchies of user types, each with distinct permission sets and dependencies, making it difficult to maintain flexibility and control.

*Solution:* Designed and implemented a scalable Role-Based Access Control (RBAC) system tailored for nested user roles. Developed dynamic role assignment logic with inheritance support and fine-grained permission toggles, enabling admins to easily configure access rights per user type without breaking isolation between tenants.

## 3- Quick Pantri (E-commerce App)

**Tech Stack:** Angular, Node.js, Express.js, MongoDB, Stripe, Firebase, Github, Postman

**QuickPantri is a U.S.-based online food ordering platform** that provides 24/7 access to local services. The platform integrates **payment gateways, notifications, and a chat system**, all developed using **Angular, Node.js, and Firebase**. A comprehensive admin dashboard enables efficient management and monitoring.

- Enhanced platform usability, faster load times, and increased customer satisfaction.
- Optimized processes, reduced operational costs, and improved overall platform performance.
- Integration of new technologies to enhance user experience or efficiency.
- Development of new features and functionalities, such as chat system and real-time order tracking.

## 4- E-Commerce Platform

**Tech Stack:** React.js, Redux, TypeScript, Express.js, Node.js, Firebase, Stripe, Heroku, GitHub Actions

- Developed a full-featured e-commerce platform using **React.js** and **TypeScript** for the frontend and **Node.js** for the backend.
- Integrated **Firestore** as a real-time NoSQL database to manage product listings and user orders.
- Implemented **Stripe API** for secure payment processing, allowing users to complete transactions within the application.
- Led CI/CD integration with **GitHub Actions**, automating the deployment process to **Heroku**, and used **Firebase Hosting** for fast and reliable production deployment.

## 5- Restaurant Daniel

**Tech Stack:** React.js, TypeScript, Firebase Firestore, MongoDB, Express.js, Tailwind CSS, Vercel

- Developed a responsive table reservation platform using **React.js** and **TypeScript** for type-safe, scalable frontend development.
- Integrated **Firebase Firestore** and **MongoDB** for real-time data syncing and efficient storage of bookings and user data.
- Built backend APIs using **Express.js** to manage reservations, time slots, and user interactions.
- Deployed the project on **Vercel** for fast performance, continuous deployment, and global reach.
- Implemented real-time booking status, availability checks, and confirmation notifications.

## 6- Kandoo Adventurs

**Tech Stack:** React, Express.js, Node.js, Bootstrap, MongoDB, Github

- Developed a web platform for booking adventure trips using **React** for the frontend and **Node.js/Express.js** for the backend.
- Designed and implemented a clean, responsive UI using **Bootstrap** for seamless booking on all devices.
- Integrated **MongoDB** to manage booking data, user information, and trip details efficiently.
- Built RESTful APIs to handle trip listings, user registrations, and booking workflows.
- Ensured smooth user experience with features like trip filtering, booking forms, and real-time data updates.

## E8 Labs

React JS Developer, United States (Remote)

01/2020 - 12/2020

### Projects:

#### 1- Project Management Dashboard

**Tech Stack:** React.js, Redux, TypeScript, Node.js, MongoDB, Material-UI, AWS EC2

- Designed and developed a **project management dashboard** for tracking tasks, timelines, and project progress.
- Created a highly interactive UI using **Material-UI** for intuitive project and task management.
- Built RESTful APIs with **Node.js** and **MongoDB** for data persistence, allowing users to create, update, and delete project tasks.
- Deployed the backend to **AWS EC2** and frontend on **Vercel**, ensuring scalability and availability.

### Key Achievements

- **Reduced application load times by 25%** by optimizing components and implementing lazy loading techniques, significantly enhancing user experience.
- **Migrated legacy code to TypeScript**, improving code readability, reducing runtime errors, and ensuring type safety across the application.
- **Spearheaded the integration of Firebase Hosting** and automated CI/CD pipelines using **GitHub Actions**, resulting in a **40% reduction in deployment time**.
- Mentored junior developers on **React.js**, **TypeScript**, and best coding practices, leading to an overall improvement in code quality and team productivity.

#### 2- Foods Inn

**Tech Stack:** React, Node.js, Next.js, Stripe, Firebase, MongoDB, Express.js, Github

- Developed a full-stack online food ordering website using **React** for the frontend and **Next.js** for server-side rendering and optimized performance.
- Implemented **user authentication** and secure data storage using **Firebase**.
- Designed and integrated **Stripe payment gateway** to support secure online transactions.
- Created a responsive and user-friendly UI for browsing restaurants, menus, and placing orders.
- Built scalable RESTful APIs using **Node.js** and **Express.js** for order management, user data, and restaurant information.
- Utilized **MongoDB** for efficient, NoSQL-based data storage and real-time updates for orders and inventory.

- Ensured seamless user experience through real-time order tracking, cart management, and dynamic menu rendering.

### 3- Real Estate Listing Platform

**Tech Stack:** React.js, Redux, TypeScript, Node.js, Firebase, Material-UI, Vercel

- **Project Overview:** Developed a comprehensive real estate platform that allows users to search for properties, view listings, and contact agents.
- **Key Contributions:** Designed and implemented the **React.js** frontend, utilizing **Redux** for managing property listings, search filters, and user sessions.
- Integrated **Firebase Authentication** to enable secure user login and registration, allowing users to save favorite properties and track their inquiries.
- Developed the **Firestore database** to manage property data, agent profiles, and user messages, ensuring real time updates for new listings and inquiries.
- **Collaborated with UI/UX designers** to create a visually appealing and responsive interface using **Material-UI**, focusing on accessibility and user experience.
- **Deployed the application to Vercel**, ensuring continuous delivery with **GitHub Actions** for streamlined deployment workflows.

### 4- Reign Restaurant

**Tech Stack:** React, JavaScript, MongoDB, Express.js, AWS, Bootstrap, Github

- Developed a responsive restaurant website using **React** and **Bootstrap** for an engaging user interface.
- Built backend services with **Express.js** and **MongoDB** for dynamic content like menus, reservations, and customer inquiries.
- Integrated **AWS** for deployment and hosting, ensuring high availability and scalability.
- Implemented interactive features like menu browsing, table booking, and contact forms.
- Used **GitHub** for version control and collaboration, maintaining clean and structured code.

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## Education

### BS in Computer Science

Lahore Leads University, Lahore ,Pakistan

- Comprehensive coursework in **Web Development, Software Engineering, Algorithms, and Database Management Systems.**
- Developed a strong foundation in **programming, problem-solving, and application development.**
- Completed projects involving **full-stack web development, data structures, and API integrations.**

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## Languages

English, Urdu, Punjabi

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## Certificates

StudySection Certified in Angular