Muhammad Usman

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer proficient in building web applications using **React.js**, **ASP.NET Core (C#)**, and **Node.js**, with hands-on experience in **SQL Server**, **MySQL**, and **MongoDB** databases. Experienced in building clean-architecture **RESTful APIs**, real-time communication via **WebSockets (Socket.io)**, and containerizing services with **Docker** for cloud deployment on **AWS EC2**. Currently working on enterprise web portals at Daewoo Express, focusing on reliable data access, maintainable code, and collaborative team delivery.

WORK EXPERIENCE

Software Engineering Intern — Daewoo Express *Lahore, Pakistan*
Web Systems & Software Engineering Team *Aug 2026 – Present*

- Developing features for enterprise management portals using **React.js** frontend components and **ASP.NET Core (C#)** Web APIs
- Writing relational **SQL Server** queries, stored procedures, and data models to maintain high data integrity and efficient data retrieval
- Participating in Agile sprint workflows, team standups, peer code reviews, and production application maintenance

Full-Stack Developer Intern — Zynvex Solutions *Remote*
Full Stack Web Development *Jun 2026 – Jul 2026*

- Built full-stack features using React.js and Node.js, implemented token-based authentication (JWT), and created modular REST APIs
- Optimized MongoDB queries and collection indexing to reduce API response latency during development and testing

EDUCATION

GC University Faisalabad (KIPS College Kasur) *Kasur, Pakistan*
Bachelor of Science in Computer Science — 7th Semester (CGPA: 3.54/4.0) *Aug 2023 – Jun 2027 (Expected)*

- **Relevant Coursework:** Data Structures & Algorithms, Database Systems, Operating Systems, Software Engineering, OOP, Computer Networks

TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript, SQL, Java, C++
Backend: ASP.NET Core Web API, Node.js, Express.js, Entity Framework Core (EF Core), RESTful APIs, WebSockets (Socket.io)
Frontend: React.js, Tailwind CSS, HTML5, CSS3, Responsive Web Design
Databases: Microsoft SQL Server, MySQL, MongoDB, Relational Database Design, Query Optimization
Cloud & DevOps: Docker, AWS (EC2), Git, GitHub, Postman, Linux
Engineering Practices: Clean Architecture, Concurrency Handling, Agile (Scrum), Code Reviews, Token Auth (JWT)

PROJECTS

CareFlow — Hospital Management & Clinical Platform | *ASP.NET Core, EF Core, MySQL, React 19, JWT* *Sep 2026*
GitHub Repository

- Architected full-stack clinical platform with **ASP.NET Core 10 Web API** and **React 19**, using Clean Architecture across controllers, DTOs, and services
- Engineered consultation scheduling engine with **slot concurrency locking** to prevent double-booking collisions under simultaneous patient requests
- Implemented role-based access control (Admin, Doctor, Assistant, Patient) with JWT Bearer tokens and automated triage vitals/diagnostic tracking

VConnect — Real-Time Web Messenger | *React, Node.js, Socket.io, MongoDB, AWS EC2, Tailwind CSS* *Jul 2026*
GitHub | vconnect.fun

- Engineered real-time messaging application with **Socket.io** supporting instant message delivery, live typing status, and read receipts
- Architected backend across **dual AWS EC2 instances** with database tier isolation, secured via AWS Security Groups
- Implemented secure authentication with **JWT stored in HTTP-only cookies** and role-based access control for protected user data

CoCode — Real-Time Collaborative Code Editor | *React, Node.js, Socket.io, Docker, AWS EC2* *May 2026*
cocode.fun

- Built collaborative code editor supporting real-time multi-user syntax synchronization and in-browser code compilation via **WebSockets**
- Configured isolated **Docker container runtimes on AWS EC2** to safely execute user-submitted code with CPU and memory resource constraints
- Deployed full-stack application on Render with custom domain routing (cocode.fun) and integrated containerized runner instances on AWS EC2

RepWise — Fitness Tracker & Training Analytics | *React, Node.js, Express.js, MongoDB, Recharts* *Jun 2026*
GitHub | Live Demo

- Developed workout analytics platform with **React Context** state management to track exercise progression and training volume
- Integrated **Recharts** to engineer interactive analytics dashboards visualizing weekly volume progressions and performance records

INTERESTS

System Architecture & Distributed Computing, Cloud Infrastructure, Cricket, Problem Solving