

# ABDUL MOEEZ

## Full Stack Engineer (MERN Stack)

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### CAREER SUMMARY

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Full stack/MERN Developer with 2 years of experience designing and shipping production grade web applications across the MERN Stack. Proficient in React.js, Node.js, Express.js, NestJS, PostgreSQL, and MongoDB, with a strong track record of building secure RESTful APIs, implementing JWT based authentication, and architecting real time collaborative features using WebSockets and CRDT. Experienced in delivering commercially successful products, including a platform used by multiple automotive dealerships.

### WORK EXPERIENCE

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**CodeSuite** | Lahore, Pakistan

**Full Stack Engineer** | January 2025 - Present

#### Key Achievements:

- Contributed to a platform that generated approximately **\$250,000** in revenue for a client within 4 months.
- Successfully implemented **multi tenant architecture** ensuring secure data isolation per client.
- Delivered a production grade realtime tracking system actively used by dealerships.
- Improved system scalability and performance for realtime WebSocket communication.
- **Recognized as Employee of the Quarter** for consistent high impact delivery and technical contribution.

#### Core Responsibilities:

- Develop and maintain full stack web applications using React.js, Node.js, and NestJS.
- Design scalable backend architectures, including multi tenant SaaS systems.
- Build and optimize RESTful APIs and realtime WebSocket based services.
- Implement authentication, authorization, and role based access control using JWT.
- Integrate third party services such as Stripe for payments and subscriptions.
- Collaborate with cross functional teams to deliver production ready features.

**Frontend Developer** | February 2024 - January 2025

#### Key Achievements:

- Built complete frontend architecture from scratch for a production application.
- Developed a custom rich text editor when existing tools could not meet requirements.
- Improved application performance through optimized rendering and lazy loading.
- Delivered seamless API integration, improving overall system stability.

#### Core Responsibilities:

- Develop responsive and scalable frontend applications using React.js and Redux Toolkit.
- Convert UI/UX designs into reusable and maintainable components.
- Integrate frontend applications with REST APIs (Django REST Framework).
- Optimize frontend performance through lazy loading and code splitting.
- Collaborate with backend developers to ensure smooth API integration.

**Intern** | November 2023 - February 2024

### Key Achievements:

- Completed assigned tasks ahead of deadlines consistently.
- Earned early transition into live client projects due to performance.
- Gained hands-on experience in production level development workflows.

### Core Tasks:

- Assisted in frontend development tasks and bug fixing.
- Supported API integration and testing workflows.
- Contributed to production level feature development under supervision.

## RELEVANT PROJECTS

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### Realtime Collaborative Workspace

- Developing a realtime collaborative workspace application enabling multiple users to edit documents simultaneously with live synchronization, similar to Google Docs style collaboration but for coding.
- Implemented CRDT based **real time collaboration (YJS)** to ensure conflict free, low latency document editing across distributed clients.
- Integrated Hocuspocus server within a NestJS backend, enabling scalable WebSocket based real time communication.
- Implemented Monaco Editor integration with Yjs bindings, providing a powerful, IDE like editing experience.
- Implemented user registration with a free plan, providing default limited permissions to new users.
- Designed a room based collaboration system, allowing users to create rooms, invite others, and collaborate after invitation acceptance.
- Integrated Stripe for subscription management, enabling users to upgrade from **Free to Basic or Premium plans with higher limits**.
- Enforced plan based restrictions on room creation and participation, implementing NestJS Guards to prevent misuse and ensure authorization compliance.

### Vehicle & Anti Theft Tracking Web App

- Developed GPS vehicle tracking and inventory management application currently live and actively used by automotive dealerships.
- Integrated map services and realtime data visualization to display vehicle movement, status updates, and historical routes.
- A single dealer using the platform for 4 months generated approximately **\$250,000** in device sales, proving real world commercial value and platform effectiveness.
- Implemented a **multi tenant architecture** enabling each dealer to securely access the application via a **dedicated subdomain**, ensuring data isolation and tenant level configuration.
- Achieved **high client satisfaction**, leading to additional engagements and development work for the **client's own customers**, expanding the product's adoption.

### Legacy & Memory Sharing Platform

- Built complete React.js frontend from start to finish, creating responsive layouts, reusable components, and intuitive user flows for desktop and mobile.
- Created **custom rich text editor using Facebook's Lexical Editor** as existing editors like Quill and others **were not covering the client requirements**, enabling users to add formatted text, images from their devices, and incorporating a grammar check feature for better content quality.
- Optimized performance, implementing lazy loading for media, and enhancing the overall user experience.

## SKILLS

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- Javascript, React.js, Next.js, Vue.js, Nuxt.js, Redux Toolkit / RTK Query, Tailwind CSS, React Router, Monaco Editor

- Node.js, Express.js, NestJS
- WebSocket & realtime communication (YJS)
- RESTful APIs, authentication & authorization (JWT, role based access)
- Multi tenant architecture, subscription & access control
- PostgreSQL, MongoDB, database modeling & optimization

## **EDUCATION**

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### **Bachelor of Business Information Technology (BBIT)**

*Virtual University of Pakistan*