

Muhammad Shawaiz

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PROFESSIONAL SUMMARY

Motivated Full Stack Software Engineer with 1+ year of experience building scalable web applications using MERN stack (MongoDB, Express.js, React, Node.js). Demonstrated ability to deliver high-quality solutions with modern frontend frameworks and robust backend APIs. Specialized in developing responsive user interfaces, RESTful API design, and AI-integrated applications. Strong academic foundation in Computer Science with 3.78 GPA and hands-on project experience in full stack development.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Python, C#, PHP, HTML5, CSS3, SQL
Frontend Technologies: React.js, Next.js, Redux, Context API, Tailwind CSS, Bootstrap, Responsive Design
Backend Technologies: Node.js, Express.js, RESTful API, JWT Authentication
Databases: MongoDB, PostgreSQL, MySQL, SQL Server, Supabase, Database Design, Query Optimization
DevOps and Tools: Git, GitHub, VS Code, Postman, Vercel
AI and Emerging Tech: OpenAI API Integration, GPT-4, Agentic AI Systems, Conversational Interfaces
Core Competencies: Full Stack Development, MERN Stack, API Development, Problem Solving, Team Collaboration

PROFESSIONAL EXPERIENCE

Full Stack Developer (MERN Stack Specialist) **Feb 2025 – Present**
Freelance Software Developer *Gujrat, Pakistan*

- Developed and deployed 5+ full stack web applications using MongoDB, Express.js, React.js, and Node.js, implementing modern development practices and responsive design principles
- Built secure RESTful APIs with JWT authentication and role-based access control, ensuring data protection and user privacy across all application endpoints
- Optimized database queries and React component rendering through code splitting and lazy loading, improving application load times and overall user experience
- Implemented server-side rendering with Next.js to enhance SEO performance and achieve fast page load speeds with improved search engine visibility
- Collaborated with clients using Git workflows and Agile methodologies to gather requirements, provide updates, and deliver projects on schedule with high satisfaction rates

Software Engineering Intern - AI and React Development **Aug 2024 – Oct 2024**
Cyber Silo *On-site*

- Contributed to development of AI-powered applications by integrating OpenAI GPT-4 API with React.js frontend to create intelligent user interfaces and conversational experiences
- Developed 15+ reusable React components following best practices and modern design patterns, improving code maintainability and development efficiency across projects
- Participated in code reviews and testing workflows with senior engineers, identifying and resolving bugs while learning industry-standard development practices
- Collaborated in Agile environment with daily standups and sprint planning, demonstrating strong communication skills and adaptability in fast-paced team settings

TECHNICAL PROJECTS

Culinary AI – AI-Powered Restaurant Management System | React, Node.js, Express.js, PostgreSQL, OpenAI **2024**

- Developed full stack restaurant management platform featuring GPT-4 powered conversational AI assistant for order processing, menu browsing, and table reservation management
- Built RESTful API backend using Node.js and Express.js to handle order management, user authentication, and reservation systems with structured data validation
- Implemented real-time order tracking dashboard using Supabase Realtime and WebSocket connections, enabling instant updates between kitchen staff and customers
- Designed responsive frontend with React.js and Tailwind CSS achieving strong performance metrics and mobile-first design for seamless cross-device user experience
- Integrated secure authentication system with JWT tokens and PostgreSQL database for managing user accounts, orders, and reservations with proper data relationships

MS-EventSphere – Event Management Platform | React, Next.js, MongoDB, Express.js, Node.js **2024**

- Built dynamic event management system with server-side rendering using Next.js and MongoDB Atlas for scalable data storage and improved SEO performance

- Created comprehensive admin dashboard featuring event moderation, approval workflows, user management, and analytics for efficient platform administration
- Optimized MongoDB queries using indexing and aggregation pipelines to improve data retrieval speed and handle complex filtering operations efficiently
- Developed RESTful API with Express.js implementing proper routing, middleware for validation and authentication, ensuring secure and reliable data operations

Concert Booking Website | HTML, CSS, JavaScript, PHP, Bootstrap, MySQL

2023

- Developed responsive concert booking platform with user authentication system and dynamic ticket booking functionality using PHP and MySQL backend
- Designed interactive user interface with Bootstrap framework ensuring cross-device compatibility and smooth user experience across mobile and desktop
- Implemented secure database design with MySQL for managing user accounts, event information, and booking records with proper data integrity

Pharmacy Management System | C#, .NET Framework, SQL Server, SSMS

2023

- Created desktop application for pharmacy operations including inventory tracking, prescription management, and patient data with secure admin access
- Designed relational database schema in SQL Server with normalized tables and optimized queries for efficient data storage and retrieval operations
- Implemented automated sales tracking and receipt generation features to streamline daily pharmacy operations and record keeping

EDUCATION

Bachelor of Science in Computer Science

Expected Graduation: May 2026

PMAS Arid Agricultural University – GPA: 3.78/4.0 (Dean's List)

Gujrat, Pakistan

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Object-Oriented Programming, Web Development, Software Engineering, Operating Systems, Computer Networks