

# Muhammad Shawaiz

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## EDUCATION

### PMAS Arid Agricultural University

Bachelor of Science in Computer Science; GPA: 3.75/4.0

Expected Graduation: 2026

Gujrat, Pakistan

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, TypeScript, Python, C#, PHP, HTML5, CSS3, SQL

**Frameworks and Libraries:** React, Next.js, Node.js, Express.js, Redux, Tailwind CSS, Bootstrap

**Databases:** MongoDB, PostgreSQL, MySQL, SQL Server

**Tools and Platforms:** Git, GitHub, VS Code, Postman, Docker, Supabase, REST API, JWT

**Core Competencies:** Full Stack Development, MERN Stack, Responsive Design, API Development, Database Design, Agile, CI/CD

## PROFESSIONAL EXPERIENCE

### Full Stack Developer

Freelance

February 2025 – Present

Gujrat, Pakistan

- Developed 5+ production-grade web applications using MERN stack (MongoDB, Express.js, React, Node.js) serving 1000+ active users with 99.9 percent uptime
- Designed and implemented RESTful APIs with JWT authentication and role-based access control, reducing security vulnerabilities by 40 percent
- Optimized database queries and React component rendering, improving application response time by 35 percent and reducing load times by 50 percent
- Collaborated with cross-functional teams using Git version control and Agile methodologies to deliver projects ahead of schedule

### Software Engineering Intern

Cyber Silo

August 2024 – October 2024

Remote

- Contributed to development of AI-driven applications by integrating OpenAI GPT models with React frontend using RESTful APIs
- Built 15+ reusable React components following industry best practices and design patterns, reducing code duplication by 30 percent
- Participated in code reviews and testing workflows, identifying and resolving 25+ bugs to improve application stability

## PROJECTS

### Culinary AI - Restaurant Management System | React, Node.js, Express.js, PostgreSQL, OpenAI

2024

- Engineered full stack restaurant management platform with GPT-4 powered conversational AI for order processing, menu browsing, and table reservations
- Developed RESTful API backend with Node.js and Express.js handling 500+ concurrent requests with real-time order tracking using Supabase
- Implemented responsive frontend with React and Tailwind CSS achieving 95+ Google Lighthouse performance score across all metrics
- Reduced order processing time by 45 percent through real-time analytics dashboard and automated workflow optimization

### MS-EventSphere - Event Management Platform | React, Next.js, MongoDB, Express.js

2024

- Built scalable event management system with server-side rendering using Next.js and MongoDB Atlas supporting 200+ concurrent users
- Created admin dashboard for event moderation with CRUD operations and real-time user management capabilities
- Optimized MongoDB aggregation pipelines and implemented indexing strategies, reducing query execution time by 60 percent

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

2023

- Developed responsive concert booking platform with secure user authentication and integrated payment processing system
- Implemented dynamic ticket booking functionality with real-time seat availability and automated email confirmations

## CERTIFICATIONS AND ACHIEVEMENTS

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**Academic:** Dean's List recognition for maintaining 3.75/4.0 GPA throughout undergraduate studies

**Coursework:** Data Structures and Algorithms, Database Systems, Web Development, Object-Oriented Programming, Software Engineering