

# SHAFIQ UR REHMAN

## SOFTWARE ENGINEER (MID-LEVEL)

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### SUMMARY

I am a passionate and experienced Web Developer with a strong background in full-stack development. Proficient in modern web technologies such as **React, Angular, ExpressJs, NestJS, NodeJs and PostgreSQL**, I excel in designing and building scalable, user-friendly applications. I am dedicated to delivering high-quality code and enjoy collaborating with teams to enhance system functionalities. My experience in tackling complex challenges and mastering diverse frontend frameworks has equipped me with the skills to thrive in dynamic, fast-paced environments.

### EXPERIENCE



#### Full Stack Web Developer

##### Softbanz

📅 10/2024 - Present 📍 Karachi, Pakistan

- Developed a Learning Management System (LMS) from scratch using Angular, NestJS, and PostgreSQL, ensuring high performance and data integrity.
- Engineered a National Health Care platform using React, focusing on automating nursing workflows to improve operational efficiency.
- Integrated WhatsApp API using WebSockets/Clickatell to facilitate real-time communication and automated notifications within the healthcare ecosystem.
- Designed dynamic front-end interfaces with both React and Angular, delivering responsive and user-centric experiences.
- Implemented a robust modular back-end architecture with NestJS to support complex business logic and scalability.
- Optimized relational database schemas using PostgreSQL, adhering to security best practices and data normalization.



#### Mid-Level Software Engineer

##### PAZ Technologies

📅 08/2022 - 07/2024 📍 Karachi, Pakistan

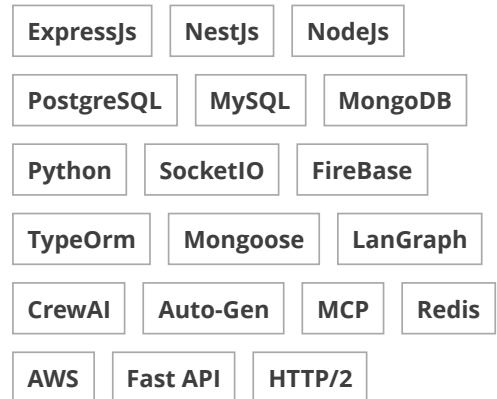
- As a Junior Software Engineer, focused on resolving bugs, adding features, and maintaining the user interface of CRM system.
- Developed modules such as File Manager, Role Permission, and Store Management.
- Ensured a smooth and user-friendly experience by addressing UI issues and improving system functionality.
- As a Mid-Level Developer, developed a comprehensive eSIM purchase system.
- Designed and implemented a responsive Angular store application.
- Created robust backend services with NestJS, maintaining clean and scalable code.
- Implemented RESTful APIs for product listings, user authentication, and payment integrations.
- Developed and maintained MySQL databases, ensuring data integrity.

### SKILLS

#### Client-Side



#### Server-Side



## EXPERIENCE

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### Associate Software Engineer

#### Digitest

📅 08/2021 - 08/2022 📍 Karachi, Pakistan

- Resolved bugs, added features, and maintained the user interface of the Learning Management System using Angular.
- Debugged issues and enhanced system functionality for a seamless user experience.

## PROJECTS

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### Edbanz-Agents (Agentic AI Ecosystem)

📅 2025 - Present

- Architected a stateful multi-agent system using LangGraph, implementing complex cyclic graphs to manage the flow of educational content generation and evaluation.
- Developed an autonomous Question Creation Agent using LangChain, leveraging Retrieval-Augmented Generation (RAG) to ensure all assessments are strictly grounded in specific course materials.
- Engineered a Marking & Evaluation Agent that uses LangGraph's state management to maintain context across multi-step grading processes, ensuring high-precision feedback.
- Designed an AI Reporting Agent that integrates with NestJS MCP servers to perform tool-calling and generate deep-dive database reports on student progress.
- Implemented custom Tool-Calling and Logic-Gating to automate the validation of generated questions, ensuring they meet difficulty levels and curriculum standards before finalization.
- Optimized LLM performance and cost by utilizing LangChain's orchestration layers for efficient prompt management and token usage.

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### National Health Care Portal

📅 10/2024 - Present

- Architected and developed a high-scale National Health Care portal from scratch using React, Express.js, and PostgreSQL to manage end-to-end health insurance policies.
- Engineered an automated nursing workflow that connects nurse members directly with the system via WhatsApp integration using the Clickatell API.
- Developed a robust ticketing system to handle policy-related queries, enabling seamless collaboration between hospitals and nurses for ticket resolution.
- Implemented automated PDF generation for insurance documents and reports using pdfmake, ensuring professional and standardized documentation.
- Orchestrated a secure cloud infrastructure on AWS, utilizing ECS and EC2 for scalable backend hosting and AWS S3 for sensitive document storage.
- Streamlined CI/CD processes using AWS CodePipeline, ensuring rapid and reliable deployment cycles for both frontend and backend.
- Deployed a responsive and high-performance frontend using AWS Amplify, optimized for complex administrative dashboards.
- Optimized relational database performance with PostgreSQL to maintain data integrity for thousands of insurance policies and member records.

# PROJECTS

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## Edbanz School

📅 2024 - Present

- Led development of EDBANZ, a scalable AI-enabled LMS for education and training.
- Built responsive UI with Angular for courses, quizzes, and proctored exams.
- Developed secure APIs in NestJS for exams, grading, and alerts.
- Integrated AI-based proctoring with periodic screen, microphone, and camera capture.
- Stored tens of recordings every 3 minutes securely on AWS S3.
- Automated video merging via AWS Lambda and Step Functions.
- Enforced integrity with tab-switch detection and copy-paste blocking.
- Enabled real-time alerts using WebSockets and Redis.

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## Roambuddy

📅 2023 - 2024

- Developed RoamBuddy, a responsive eSIM store for purchasing global roaming plans.
- Built Angular UI with reusable components for onboarding, checkout, and plan comparison.
- Used Angular features like lazy loading and reactive forms for performance optimization.
- Developed secure REST APIs in NestJS for orders, authentication, and admin tools.
- Integrated telecom APIs for automated eSIM activation and provisioning.

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## ERP System – Reanda HZA Chartered Accountants

📅 2022 - 2023

- Developed and maintained the frontend of HZCO, an enterprise app for accounting, HR, payroll, and workflows.
- Built dynamic Angular modules to manage core business operations.
- Created reusable, maintainable UI components integrated with backend APIs.
- Applied lazy loading and optimization techniques for faster performance.
- Ensured responsive design and smooth UX across all modules.
- Collaborated with designers and backend teams for seamless integration.
- Focused on scalability and usability for large-scale organizational needs.
- Delivered a robust, high-performance UI tailored for enterprise workflows.

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## DigiTest

📅 2021 - 2022

- Contributed to a flagship LMS platform built with Angular for online education and assessment.
- Added new features like role-based dashboards, quiz modules, and UI improvements.
- Resolved bugs and optimized performance for a smooth, cross-device experience.
- Maintained a clean, accessible, and responsive UI using Angular and SCSS.
- Collaborated with backend developers to integrate REST APIs seamlessly.
- Supported features like course creation, assignments, and real-time tracking.
- Focused on usability and accessibility for diverse user roles.
- Helped enhance platform reliability, responsiveness, and user engagement.