

MUHAMMAD ABDUL REHMAN KHAN

Islamabad, Pakistan

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Education

Iqra University

Bachelor of Computer Science

Oct 2023 - Jul 2027

Islamabad

Experience

Bartan Markaz

Aug 2025 - Oct 2025

Full Stack Developer & Business Operations (Onsite)

Rawalpindi, Pakistan

- Engineered a production-ready Windows desktop application using **Electron, React, and TypeScript** to automate invoicing and stock management for high-volume retail operations.
- Architected a modular backend using **Node.js** and **Better SQLite3**, implementing asynchronous API services to handle real-time inventory updates and data persistence.
- Optimized data retrieval by replacing Excel-based workflows with a relational database, enabling complex analytics and searchable customer history.
- Designed a responsive dashboard with **Tailwind CSS**, reducing invoice generation time and improving operational efficiency.

Appuals

Feb 2024 - Jul 2024

Technical Writing (Remote)

Rochdale, United Kingdom

- Composed **20+ troubleshooting guides** for common operating system and software errors, enabling users to resolve technical issues independently.
- Conducted **in-depth research** to ensure accuracy and reliability of all guides, maintaining high-quality standards.
- Refined and proofread content for **clarity and consistency**.

Projects

LocalLoop (In Progress) - Multi-Vendor Marketplace | React, Fastify, PostgreSQL, Better-Auth, Safepay Jan 2026

- Architected a scalable microservices monorepo to handle identity, catalog, and order processing for a multi-vendor marketplace.
- Implemented **Raw SQL** queries for database interactions, leveraging **ACID transactions** and row-level locking to ensure strict inventory consistency during concurrent checkouts.
- Designed the relational schema in **PostgreSQL**, prioritizing data integrity and efficient join operations for complex product cataloging.
- Integrated AI-driven metadata generation using Google Gemini APIs to automate product categorization and SEO optimization.

Legerly - Invoicing and Inventory App | Electron, React, Node.JS, Better SQLite3, TypeScript

Sept 2025

- Developed a Windows desktop application using **Electron** and **React** to provide businesses with a responsive dashboard using **Tailwind**, focusing on a clean interface that allows users to create and track invoices with minimal clicks.
- Built a modular backend architecture using **Node.JS**, decoupling different services into independent, reusable modules.
- Developed asynchronous API services to bridge the React frontend with the Node.JS backend, ensuring smooth data flow for real-time inventory updates.
- Implemented reliable data persistence using **Better SQLite3**, utilizing HTML Table to create dynamic, searchable, and feature-rich data displays for inventory tracking.

Personal Portfolio | React, Tailwind, TypeScript

Aug 2025

- Developed a custom digital space to showcase technical projects and skills with a focus on a clean, minimal, responsive layout.
- Optimized page performance and SEO through Static Site Generation (SSG), achieving near-instant load times and high Lighthouse scores.
- Integrated Framer Motion to create smooth, declarative UI transitions that enhance user engagement without sacrificing site speed.
- Developed a modular project gallery that dynamically renders content, making the system easily extensible for future technical case studies.

Technical Skills

Languages: Python, HTML, CSS, JavaScript, TypeScript, C++

Front-end Technologies: React, TailwindCSS

Back-end Technologies/Tools: Node.JS, Fastify, Linux, Git, GitHub

Databases: PostgreSQL, MySQL, Better SQLite3

Spoken Languages: English (Fluent), Urdu (Native)