

ABDUL REHMAN SARFARAZ

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SKILLS

Languages: Typescript, Javascript, Python, C++

Technologies: Nestjs, Nodejs, React, React Native, REST APIs, Django, FastAPI, SQL, MongoDB, Azure, AWS, langchain, LLMs

CERTIFICATES

- Coursera: Advanced React Course (Meta)
- Coursera: Crash Course on Python
- Coursera: Version Control

EDUCATION

2020 - 2024

Bachelor of Science in Computer Science
SZABIST - Islamabad.

cgpa: 3.59/4.00

EXPERIENCE

Full stack developer (MERN) at IR Solutions (Full Time)

July 2025 - Present

Full stack developer at Octaloop Technologies (Full Time)

June 2024 - May 2025

Building and maintaining web and mobile applications with a focus on performance and scalability. Skilled in frontend and backend development, creating APIs, and deploying to the cloud. Collaborate with teams to deliver user-friendly solutions.

Full Stack Developer at Apni Sawari (Part Time)

Aug 2023 - June 2024

Part-time Full Stack Developer at Apni Sawari, a ride-hailing app. Responsible for revamping their user interface, maintaining the application, and adding new features to enhance functionality and user experience.

MERN Stack Developer at Alright Tech (Full Time)

Dec 2023 - April 2024

Worked on the Alright Tech website and job portal. During my time there, I also contributed to the Smart Solution Strategies web portal—a user-friendly crypto copy trading platform designed to optimize portfolio management and enhance profitability.

PROJECTS

Nestjs,
Twilio,
Typescript
WebSockets

Collaby

<https://app.collaby.co>

- Payment infrastructure: Stripe integration with Payment Intents, Setup Intents, webhook handlers, escrow management, automated withdrawal processing via scheduled cron jobs, and subscription lifecycle management.
- Real-time systems: WebSocket gateways (Socket.io) for bidirectional chat, custom offer negotiations, typing indicators, and Firebase Cloud Messaging for push notifications with token management.
- Business logic: Order workflow engine with state transitions (Draft → Requested → Active → Delivered → Completed), revision system with limits, creator badge algorithms (Top Rated, Rising Talent), and boost subscription analytics with visibility multipliers.
- Architecture: Modular design with 20+ feature modules, role-based guards/decorators, DTO validation pipelines, MongoDB aggregation pipelines for analytics, global exception filters/interceptors, and automated cron jobs for background processing.

Nestjs,
Typescript
WebSockets

Mojo Quiz Game

- Real-time multiplayer system: Built WebSocket-based game engine using Socket.io and NestJS Gateway, enabling synchronized multiplayer quiz sessions with live state management, team scoring, and lifeline mechanics.
- Scalable architecture: Designed modular NestJS backend with 12+ feature modules, MongoDB aggregation pipelines for analytics, and RESTful APIs with JWT authentication, DTO validation, and global exception handling.
- Payment integration: Implemented Stripe subscription management with webhook processing, promo code system, and subscription lifecycle management (active/canceled/expired states).
- Content management: Developed user contribution system with review workflows, multilingual support (English/Arabic), media handling (text/audio/image/video), and credit/commission tracking for content contributors.

Python,
FastAPI,
Langchain,
LLM,
Google API

SmartSched (An AI Powered meeting scheduler)

- Built an AI-powered meeting scheduler using LangChain and GPT-4 with custom tooling for natural language processing, enabling users to schedule, query, and manage Google Calendar events through conversational interactions with context-aware responses.
- Developed a scalable FastAPI backend with RESTful APIs, WebSocket connections, and Server-Sent Events (SSE) for real-time bidirectional communication, implementing async MongoDB operations with Motor for persistent chat history and meeting data storage.
- Integrated Google Calendar API with OAuth 2.0 authentication, implementing conflict detection, natural language date parsing, automated meeting creation with Google Meet links, and event management (CRUD operations) with attendee notification handling.
- Integrated the application with Expo for cross-platform deployment (Android/iOS/web), implementing Firebase authentication for secure user management and ensuring seamless real-time communication between the mobile/web clients and the FastAPI backend through WebSocket.

Python,
FastAPI,
Twilio,
OpenAI
Realtime API
WebSockets

Live Call Translation Service (OpenAI Realtime API, Twilio)

- Developed a real-time multilingual call translation system integrating Twilio IVR for language selection and call routing.
- Developed a FastAPI backend with WebSocket bridge between Twilio Media Streams and OpenAI Realtime API for live translation.
- Configured g711 ulaw audio codec for telephony compatibility and ensured low latency bidirectional audio playback.
- Technical Flow: Caller selects language via Twilio IVR, FastAPI streams audio, OpenAI Realtime API translates, Translated audio returned via Twilio in real time.

Next.js,
Node.js Express,
MongoDB,
React Native

Brexil – B2C E-commerce Platform

www.brexil.ae

- Built a scalable B2C e-commerce platform with customizable categories, products, promotions, and discount management.
- Developed a responsive Next.js frontend with optimized product browsing and checkout experience.
- Implemented Node.js Express backend with MongoDB for secure, scalable data management and order processing.
- Delivered a cross-platform React Native mobile application ensuring seamless shopping experience across devices.
- Integrated advanced promotional features, enabling dynamic discounts, campaign creation, and customer engagement tools.

Javascript
CSS

Teesney

<https://teesney.com>

- Redesigned the theme of website and developed a custom shirt creation feature. This feature allows users to add images and text to shirts. Additionally, I integrated APIs for text-to-image generation and for converting images into cartoon and sketch styles.

React Native,
React.js,
Node.js,
Azure AI
speech service,
Elvenlabs, S3,
Open AI
Twilio

AI Interpreting Services

<https://play.google.com/store/apps/details?id=com.interpretationhealthcareappnew>

- Built a multilingual communication platform enabling real-time interaction between doctors and patients using React Native and Azure AI Speech Service.
- Integrated Azure AI Speech Models for accurate real-time speech detection and translation.
- Designed a React.js portal for session management, monitoring, and role-based access control.
- Implemented billing based on session duration with customizable rates per hospital.
- Used Eleven Labs for text-to-speech conversion and AWS S3 for secure session recordings.
- Enabled OTP-based authentication for secure logins and access control for Super Admins, Hospital Admins, and Departments.
- Developed real-time language translation for phone calls using Twilio, Twilio Flex, and OpenAI Whisper for seamless multilingual communication.

React Native

Apni Sawari

<https://play.google.com/store/apps/details?id=com.apnisawari.customerApp>

- Worked on the user interface of a ride-hailing app and made modifications to the dashboard.

Node.js,
EJS,
Sequelize ORM

Dxsure Website and Job Portal

<https://dxsure.com>

- Dxsure is a company website designed to connect job seekers with opportunities within their organization. Users can explore job openings, apply for positions, and contact their HR team with any questions or inquiries. The site is built with Node.js, and MongoDB as mySQL (Sequelize ORM).

Node.js,
React.js,
Express.js,
Mongodb,
Stripe

Credits Template

<https://credits-template.com>

- CreditTemplate.com allows users to generate personalized credit documents in both DOCX and PDF formats. Create legally compliant credit forms with ease, designed by licensed attorneys, and ready to use within minutes