

Muhammad Abdul Raheem

SR. SOFTWARE ENGINEER

raheemjanjua26@gmail.com | +1 416 315 9645 | Markham, Ontario, Canada | [linkedin.com/in/abdul-raheem](https://www.linkedin.com/in/abdul-raheem)

SUMMARY

Twelve years of shipping software that has to stay up - real-time communications platforms, commerce systems, and the APIs underneath them. My career started in the .NET world - ASP.NET MVC, Web API, Umbraco, SQL Server - and grew into JavaScript and TypeScript across Node.js, NestJS, React and Next.js. That range means I am equally comfortable tuning a stored procedure, drawing a service boundary, or pairing with a designer on the front end.

CORE SKILLS

Backend & APIs: C#, ASP.NET Core, ASP.NET MVC & Web API, Node.js, NestJS, Express, Microservices, REST & Webhooks, Umbraco

Frontend & UX: TypeScript, JavaScript (ES2015+), React, Next.js, Angular, Meteor.js, Progressive Web Apps, HTML5, CSS, Tailwind, jQuery & Bootstrap

Data & Storage: MS SQL Server, MySQL, MongoDB & Mongoose, Database replication, Redis & caching

Cloud, DevOps & Infra: Docker, Kubernetes, Azure, Nginx & HAProxy, Linux & Windows Server, Git, GitHub, Bitbucket, Jest & unit testing

Real-Time & Telephony: WebRTC, Janus Gateway, Asterisk, SIP & VoIP (PortaOne), Socket.IO

AI Engineering: LLM application design, Retrieval-augmented generation, Recommendation systems, Agentic workflows & MCP, Python for ML tooling

EXPERIENCE

mobileLIVE - Sr. Software Engineer

2022 - Present | Toronto, Canada

Embedded on-site with a major enterprise client

Feb 2025: Relocated to Canada by mobileLIVE to join the Toronto team on site | 2022: Joined mobileLIVE in Lahore, Pakistan

- Design and ship scalable backend services in Node.js and NestJS, with typed contracts shared across teams.
- Build responsive web applications in React, integrating REST APIs behind secure, maintainable architectures.
- Deploy microservices to Azure with Docker, keeping environments reproducible from laptop to production.
- Hold the quality line through code review on Bitbucket and GitHub, and unit tests written with Jest.
- Work inside the client's own engineering process - their standards, their reviews, their release calendar - as a long-term embedded engineer rather than a hand-off contractor.
- Translate ambiguous enterprise requirements into service boundaries a team can actually build against.

Stack: TypeScript, Node.js, NestJS, React, Jest, Azure, Docker, Microservices, Git / Bitbucket

Code-Desk - Sr. Software Engineer

2014 - 2021 | Lahore, Pakistan

- Architected and delivered web platforms in ASP.NET MVC, ASP.NET Core, Node.js, Angular and Meteor.js.
- Owned Linux deployments end to end: Nginx and HAProxy for routing and load balancing, TLS, and zero-drama releases.
- Configured and operated Janus Gateway for real-time audio and video, alongside Asterisk for call management.
- Implemented database replication for redundancy, high availability, and read performance under load.
- Ran requirements gathering and client communication directly, keeping scope and expectations aligned.
- Kept shipped products healthy through long-term maintenance, upgrades, and incident response.

Stack: C#, ASP.NET MVC, ASP.NET Core, Umbraco, JavaScript, Node.js, Meteor.js, Angular, MS SQL, MySQL, Nginx, HAProxy, Janus

SELECTED PROJECTS

The Hub (2019)

A universal communications app: chat, SMS, and WebRTC calling in one place.

JavaScript, Meteor.js, Node.js, Socket.IO, WebRTC, Asterisk

E-commerce Recommendation System (2023)

Personalised discovery across multiple storefronts, served by containerised services.

TypeScript, NestJS, React, Node.js, Docker, Azure, Microservices

PBX Management System (2018)

A modern control plane for telephony - SIP accounts, IVR, recordings, DID ordering.

C#, ASP.NET Web API, Angular, PortaOne SIP, MS SQL

Smart Reports (2017)

Real-time reporting over high-volume SIP call detail records.

C#, ASP.NET Web API, Angular, SQL Server

Hotel Management System (2016)

Front-desk operations end to end, down to SIP wake-up calls in the rooms.

C#, ASP.NET Web API, Angular, SQL Server, SIP

Order Management System (2015)

A rules engine for orders - conditional actions, approvals, and role-based control.

C#, ASP.NET, Razor Pages, MS SQL

EDUCATION

BSc in Computer Engineering

COMSATS University, Lahore, Pakistan | 2008 - 2013