

Muhammad Rehan Baig

Senior Full Stack Software Engineer | Agentic AI | .NET | React | Azure

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SUMMARY

Senior Full Stack Software Engineer with 8+ years shipping SaaS and agentic AI products for clients in Canada, Finland, the UK, Kuwait and Pakistan. Currently builds multi-agent AI platforms with LangGraph, Azure OpenAI and MCP, from clinical decision support integrated with Epic to an AI software delivery platform. Proven record of cutting query times by 50%, response lag by 40% and integration time by 30% across healthcare, fleet, fintech, real estate and food tech.

SKILLS

AI and Agents: Generative AI, LLMs, Multi-Agent Systems, LangGraph, MCP, Azure OpenAI, Azure AI Foundry, Claude Code

Backend: C#, Python, SQL, .NET 10, ASP.NET Core, Node.js, Express, EF Core, Prisma

Frontend and Mobile: React 19, Blazor, React Native (Expo), Ionic, Tailwind CSS, MUI

APIs and Databases: REST, GraphQL, SignalR, FHIR R4, SQL Server, Azure SQL, PostgreSQL, Cosmos DB, Redis

Cloud and DevOps: Azure (Container Apps, Service Bus, Functions, Blob Storage), AWS Serverless, Azure DevOps, Docker

Security and Testing: Entra ID, OAuth 2.0, JWT, Microservices, SOLID, Playwright, Vitest, Agile, Git

EXPERIENCE

Senior Full Stack Software Engineer

May 2024 – Present

Architecture In Motion Inc – Canada (Remote)

- **Dextre AI – agentic software delivery platform with human approval gates** Sept 2026 – Present
 - Implemented bring-your-own MCP servers with live tool discovery, write tools off by default and per-stage budgets
 - Fixed a production OAuth bug that lost GitHub and Atlassian refresh tokens, adding retries and single-flight refresh
 - Developed the admin portal, DevOps, GitHub and Jira connections, and Entra group sync via Microsoft Graph
 - Closed an account-takeover path and a first-admin bypass, moved Google sign-in to Entra External ID federation, and covered every feature with Playwright tests in CI
 - *Technologies:* TypeScript, Next.js 15, React 19, Fastify, Azure SQL, Entra ID, Microsoft Graph, Azure DevOps, Playwright, Vitest
- **VitalSense – AI clinical decision support for maternal health** May 2026 – Sept 2026
 - Created a 4-agent diabetes pipeline in a LangGraph supervisor that flags co-occurring hypertension and diabetes
 - Introduced Azure OpenAI reasoning agents that explain risk verdicts to clinicians beyond rule thresholds
 - Integrated Epic FHIR R4 sync and write-back, tiered SLA escalation, BLE glucose meter pairing and DKA alerts
 - Shipped patient sign-up and sign-in with Entra External ID and Google across API, mobile and clinician portal
 - Chose a LangGraph supervisor with specialist agents, keeping rule thresholds as the baseline under LLM reasoning
 - *Technologies:* .NET 10, Python, LangGraph, Azure OpenAI, React 19, React Native (Expo), FHIR R4, Service Bus, SignalR, Redis
- **AI Value Assessment Platform – AI opportunity scoring and executive reporting** Aug 2026 – Sept 2026
 - Built most of a 7-stage platform turning an AI consulting method into software, from discovery to final report
 - Designed a deterministic NPV and ROI engine where GPT-4o estimates inputs and server code computes every figure
 - Generated 37-slide decks and Word reports in Python, secured by Entra ID tokens, tenant isolation and audit logs
 - Architected tenant isolation in the data layer, writing an audit record in the same transaction as every change
 - *Technologies:* Node.js, Express, Prisma, PostgreSQL, React 19, TypeScript, Python, Azure OpenAI, Azure Container Apps
- **Agentic SDLC Framework – Claude Code multi-agent delivery team** Aug 2026
 - Directed 17 Claude Code agents across 3 healthcare repositories, reaching 125 web and 353 mobile tests and adding 71 API tests, all through automated QA gates
 - *Technologies:* Claude Code, PowerShell, Bash, Vitest

- **Mirlin Connect** – *fleet productivity and compliance platform* May 2024 – Jan 2026
 - Implemented real-time vehicle tracking and in-app chat on GraphQL subscriptions, cutting response lag by ~40%
 - Automated compliance workflows and built Blazor fleet analytics, removing manual entry and reducing breakdowns
 - Integrated an OpenAI and Azure AI Foundry bot for autonomous tasks and delivered a white-label onboarding portal
 - *Technologies: C#, .NET 8, Blazor, GraphQL, SQL Server, Azure, OpenAI, Azure AI Foundry*

Senior Full Stack Software Engineer

July 2023 – May 2024

Tego Cloud – Finland (Remote)

- **Eetify** – *multi-branch restaurant operating system*
 - Architected a multi-tenant Blazor and .NET 8 SaaS for restaurant branches, supporting hundreds of concurrent users
 - Created a SignalR kitchen display system, order pipeline and analytics, lifting release cadence 20% per quarter
 - Redesigned REST API contracts with frontend and mobile teams, cutting integration time by up to 30%
 - Chose AWS serverless hosting so the platform auto-scales with order volume and deploys with zero downtime
 - *Technologies: C#, .NET 8, Blazor, SignalR, SQL Server, AWS Serverless*

Senior Full Stack Software Engineer

Oct 2021 – June 2023

Appxone – Pakistan (Remote)

- **Blotter** – *treasury FX reporting system for HBL (Habib Bank Limited)*
 - Designed an SBP-compliant FX blotter for HBL Treasury with real-time inflow and outflow reporting in 19 currencies
 - Owned the architecture end to end: data model, SQL Server design, service boundaries and routing
 - Developed liquidity, Nostro account, FX rate and interbank transfer modules, giving treasury one view of positions
 - Architected the phase 2 move to Ocelot-gated microservices, improving processing efficiency 35%+
 - Optimized SQL Server schemas and queries for high-volume transactions, cutting average query time by up to 50%
 - *Technologies: C#, ASP.NET, .NET Core, Ocelot, Microservices, SQL Server, jQuery*

Full Stack Software Engineer

Jan 2019 – Sept 2021

Exedra IoT Solutions – Kuwait (Remote)

- **GateLink** – *IoT-enabled property management SaaS*
 - Built tenant, accounting, payment, maintenance and invoicing modules for an IoT-enabled property SaaS
 - Designed a multi-layered .NET Core architecture for 3x more concurrent IoT connections, plus JWT-secured APIs
 - Optimized IoT data pipelines for real-time dashboards and refactored legacy code to SOLID principles
 - *Technologies: C#, ASP.NET, .NET Core, Web API, JWT, SQL Server*

Software Engineer

Oct 2017 – Dec 2018

WaqarTech Limited – Pakistan

- **Supermeal** – *food deals and restaurant discovery platform*
 - Delivered portal, voucher, cashback and Ionic mobile features for a food deals platform in South Asia and the UK
 - *Technologies: C#, ASP.NET, .NET Core, EF Core, SQL Server, Ionic, JavaScript*

CERTIFICATIONS

Microsoft Certified: Azure AI Apps and Agents Developer Associate (AI-103) , Microsoft	In Progress
Claude Certified Architect – Foundations , Anthropic	In Progress

EDUCATION

Master of Science in Software Engineering Bahria University	2020
Bachelor of Engineering in Software Engineering Mehran University of Engineering and Technology	2018