

Muhammad Hamza

Senior Full-Stack Engineer · .NET / Cloud / Applied AI

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Senior full-stack engineer with 9+ years building reliable, high-performance .NET systems — distributed systems and microservices at scale — now building agentic AI into production products on the cloud.

EXPERIENCE

Architecture In Motion (AIM) — Senior Full-Stack Engineer

May 2025 – present

Full-stack engineering across AI-powered products — with hands on infrastructure and architecture. The current chapter of a backend career now building agentic AI into production systems.

- Building MaternaAI, an agentic AI platform for maternal and chronic care with clinician-supervised (human-in-the-loop) decision support
- Built AuditAhead, a multi-agent compliance orchestrator on IBM watsonx Orchestrate and Azure with LangGraph, producing a tamper-evident signed audit trail
- Delivered Mirlin Connect, a .NET 8 / Blazor fleet-productivity platform with BPMN 2.0 process automation and an embedded AI assistant
- Working full-stack across backend, frontend (Blazor / Angular / React), plus infrastructure and system architecture

ServicePath — Senior Software Engineer

Apr 2023 – Apr 2025

Senior engineer on a large-scale, multi-tenant CPQ (Configure-Price-Quote) SaaS platform — microservices, real-time communication, and deep enterprise integrations. Recognised with multiple G2 Spring 2025 awards.

- Led performance-optimization initiatives with dotTrace and dotMemory — fixing memory leaks, RavenDB session handling, and MEF composition issues
- Mentored junior developers through code review, debugging, and task guidance
- Integrated New Relic monitoring for proactive production issue detection with the support team
- Contributed to real-time communication, background jobs, and external integrations (CRM, DocuSign)

Synergy-IT — Software Engineer

Apr 2019 – Apr 2023

Backend engineer on Denmark's education-sector systems — GDPR-compliant APIs, jobs, and services — moving legacy systems to microservices on Azure.

- Led the License Access Service (LAS) rebuild — delivered on time, serving since 2022 with zero major bugs reported
- Built SHARP: serves a 1.8M-user (~6GB) data repository in under 50 seconds, with sub-10ms average response on hot paths
- Maintained the EKey licensing platform handling ~20k requests/second, load-balanced
- Owned APIs, background jobs, deployments, monitoring, and cost management across the estate

Global Bridge Solutions — Junior Software Engineer

Aug 2017 – Mar 2019

Early-career full-stack developer across 10+ projects on a range of .NET stacks.

- Built checkout, subscriptions, PDF/image processing, and reporting modules for a music-publishing platform (TMP)
- Delivered checkout (Stripe, TaxJar), events, seating, attendance, and CMS modules for an events platform (Onsi Groups)
- Designed and built multiple APIs for downloads, image processing, stock management, and order posting

SKILLS

Backend: C#, .NET / .NET Core, ASP.NET Core, Entity Framework / EF Core, ABP.IO / ABP Framework, MediatR, GraphQL, SignalR

Frontend: Blazor, Angular, React, Form.io

Architecture: Microservices, Clean Architecture, Domain-Driven Design, CQRS, Event-driven systems, BPMN 2.0

Cloud/DevOps: Azure, Azure Functions, Azure DevOps, CI/CD (YAML pipelines), IaC / Bicep, Docker, New Relic

Data: MS SQL Server, MongoDB, RavenDB

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AI: Azure AI Foundry, Azure AI Services, IBM watsonx Orchestrate, LangGraph, Agentic AI, RAG / knowledge bases, Model Context Protocol

Embedded/IoT: ESP32, Arduino, MicroPython

SELECTED PROJECTS

MaternaAI — agentic platform for maternal & chronic care

An agentic AI platform that turns remote-monitoring signals into coordinated, clinician-supervised action — starting with maternal care.

▸ [Human-in-the-loop by design — every AI recommendation is reviewed by a clinician](#) · [Reusable platform: a new care pathway is a configuration exercise, not a new product](#) · [Web clinician console plus a patient-facing mobile app on one foundation](#)

AuditAhead — multi-agent compliance orchestrator

A multi-agent system that turns a batch of mixed compliance documents into a tamper-evident, independently verifiable signed audit artifact.

▸ [Four-agent adversarial pipeline with a human-in-the-loop approval gate](#) · [Produces a tamper-evident, independently verifiable signed audit artifact](#) · [Data-minimisation boundary enforced structurally, so PII never crosses where it shouldn't](#)

Mirlin Connect — fleet productivity platform

An all-in-one fleet productivity platform — process automation, standardised workflows, real-time data capture, vendor communications, live tracking, and an AI assistant for autonomous task handling.

▸ [BPMN-driven process automation with standardised, reusable workflows](#) · [Real-time data capture and live tracking across the fleet](#) · [Embedded AI assistant handling routine tasks autonomously](#)

CPQ SaaS platform — performance & reliability

A large-scale, multi-tenant Configure-Price-Quote (CPQ) SaaS platform — microservices, real-time communication, and deep enterprise integrations — recognised with multiple G2 Spring 2025 awards.

▸ [Eliminated steady memory growth in a long-running multi-tenant service](#) · [Proactive production monitoring via integrated New Relic](#) · [Platform recognised with multiple G2 Spring 2025 awards](#)

SHARP — high-throughput data microservice

A microservice that serves a national education dataset at very high speed — the full 1.8M-user repository in under a minute.

▸ [Serves the full 1.8M-user repository \(~6GB\) in under 50 seconds](#) · [Sub-10ms average response time on hot paths](#)

CERTIFICATIONS

AI concepts for developers and technology professionals — Microsoft (Earned)

watsonx Orchestrate Technical Sales Intermediate — IBM (Earned)

watsonx Orchestrate Sales Foundation — IBM (Earned)

Claude with the Anthropic API — Anthropic (Earned)

Claude Code in Action — Anthropic (Earned)

Introduction to Agent Skills — Anthropic (Earned)

Introduction to Model Context Protocol — Anthropic (Earned)

Claude 101 — Anthropic (Earned)

Transitioning from Manager to Leader — LinkedIn Learning (Earned)

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Decision-Making Strategies — LinkedIn Learning (Earned)