SAGIR AHMED

Full-Stack .NET Developer | Software Engineer

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PROFESSIONAL SUMMARY

Full-Stack .NET Developer and Software Engineer with verified national competence (NSDA BNQF Level 4) and 788 hours of intensive enterprise engineering training under the IsDB-BISEW IT Scholarship Programme. Currently building full-stack web applications and RESTful APIs for Australia-based GigaAxis Creative Agency. Experienced in architecting transactional, scalable systems with C#, Modern .NET, ASP.NET Core, EF Core, and MS SQL Server, complemented by modern frontend SPAs in React 19 and Angular 19. Proven track record in implementing Clean Architecture, CQRS with MediatR, real-time SignalR hubs, automated test suites (xUnit, Vitest, Playwright), and AI-augmented tools with Microsoft Semantic Kernel.

</> TECHNICAL COMPETENCIES

Backend Engineering: C#, .NET, ASP.NET Core Web API, Entity Framework Core, MediatR (CQRS), SignalR, RESTful API Design, JWT Authentication, RBAC

Frontend Engineering: React 19, Angular 19, TypeScript, JavaScript, Vite, PrimeNG, Tailwind CSS, RxJS, HTML5, CSS3

Database & Persistence: MS SQL Server, Relational Schema Design, Indexing, Query Optimization, ACID Transactions, Connection Resilience (EnableRetryOnFailure)

Architecture & Patterns: Clean Architecture, Domain-Driven Design (DDD), CQRS, Repository & Service Pattern, SOLID Principles, Dependency Injection

Testing & Quality Assurance: xUnit, Moq, Vitest (90+ unit tests), Playwright E2E, Postman

AI Integration & Tooling: Microsoft Semantic Kernel (.NET), LLM API Integration (Groq/OpenAI), Native Plugin Architecture, Prompt Injection Defense, Structured Outputs

DevOps & Infrastructure: Git, GitHub Actions (CI/CD), Docker, Docker Compose, MonsterASP.NET, NGINX

PROFESSIONAL EXPERIENCE

Full-Stack .NET Developer (Freelance)

MAR 2026 – PRESENT

GigaAxis Creative Agency

Australia (Remote)

- Architect and develop full-stack client-facing web applications using C#, ASP.NET Core Web API, Entity Framework Core, and MS SQL Server.
- Build responsive, type-safe SPAs in React 19 and Angular 19 with TypeScript, ensuring clean state separation and robust client-side validation.
- Optimize EF Core data queries by eliminating N+1 access patterns, enforcing AsNoTracking() across read endpoints, and indexing relational tables.
- Establish Clean Architecture boundaries and structured error-handling middleware to keep core business logic decoupled and testable

FEATURED ENGINEERING PROJECTS

Meet&Greet — Community Mentorship Platform

LIVE DEMO

C#, .NET Web API, Clean Architecture, CQRS (MediatR), React 19, SignalR, SQL Server, Docker, xUnit, Playwright

- Engineered a community support platform adhering strictly to Clean Architecture and DDD across Domain, Application, Infrastructure, and API layers.
- Implemented CQRS using MediatR and FluentValidation pipeline behaviors, decoupling command processing from query execution.
- Built real-time volunteer dispatch and status broadcast notifications utilizing ASP.NET Core SignalR hubs and @microsoft/signalr client.
- Authored a comprehensive multi-tier automated testing suite using xUnit, Moq, Vitest, and Playwright for backend and end-to-end integration verification.
- Secured platform via stateless JWT authentication with refresh token rotation and 5-tier Role-Based Access Control (RBAC).

Pharmacy Management System

LIVE DEMO

C#, ASP.NET Core, Angular 19, EF Core, MS SQL Server, PrimeNG, RxJS

- Developed a high-concurrency pharmacy POS and inventory management system structured on a Repository & Service Pattern to decouple persistence from API controllers.
- Programmed a First-Expired, First-Out (FEFO) batch deduction algorithm, daily auto-resetting invoice sequences, and explicit database transaction rollbacks to eliminate stock discrepancies during simultaneous checkouts.
- Built a modern, responsive Angular 19 SPA with PrimeNG, RxJS reactive pipelines, and client-side PDF invoice reporting (jsPDF / AutoTable).
- Configured SQL Server transient fault connection resilience (EnableRetryOnFailure) and granular role-based access control.

S7 Portfolio & Static Blog Engine (with s7Agent AI Assistant)

LIVE DEMO

Node.js SSG, Vanilla JavaScript, ASP.NET Core, Microsoft Semantic Kernel, xUnit, GitHub Actions

- Engineered a zero-runtime-database static site generator (SSG) pipeline and client-side Markdown engine rendering 180+ technical articles with 100/100 Core Web Vitals.
- Built s7Agent: an embedded backend AI Assistant powered by ASP.NET Core and Microsoft Semantic Kernel, featuring native tool calling (CvDeliveryPlugin), SSE response streaming, and prompt injection defense.
- Maintained 45 automated xUnit tests validating AI plugin execution, prompt security guardrails, and bilingual grapheme cluster integrity.
- Integrated a headless dynamic CV generation engine compiling ATS-compliant PDF and DOCX resumes on every production build.

🎓 EDUCATION & CREDENTIALS

Enterprise Cross-Platform Application Development (.NET, Angular & React)

8.5-Month (788 Hours) Professional Diploma

IsDB-BISEW IT Scholarship Programme (Round 66)

Intensive hands-on engineering training in C#, ASP.NET Core, EF Core, SQL Server, Angular, React, and enterprise application architecture.

National Skills Certificate (BNQF Level 4) — Web Application Development with ASP.NET

BNQF Level 4 Certified

National Skills Development Authority (NSDA), Bangladesh

Certified competent across 11 national ICT assessment units covering backend development, relational database design, and software lifecycle management.

Professional Search Engine Optimization (SEO) Certification

Certified Technical SEO Specialist

Creative IT Institute, Dhaka

Focused on Technical SEO, Core Web Vitals optimization, Schema.org structured data, and search crawlability.

Master of Arts (MA) & Bachelor of Arts (BA Hons) in Bengali Literature

National University, Bangladesh