Kazi Mahfuzur Rahman

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Summary

Software Engineer with **1+ year** of .NET experience across a **Healthcare** platform used by 150+ hospitals in UK and **Freelance Projects**. Strong in problem solving, debugging, legacy-system analysis, performance, and maintainable code. Building hands-on **Azure** and **AI development** skills, with a deep interest in **.NET internals**. Seeking a **Backend Engineering** role with **Cloud** exposure.

Professional Experience

HDC/NEXUS - Junior Software Developer(.NET) | Dhaka,Bangladesh | Jan 2026 - Present
Healthcare | 150+ hospitals in the UK and Ireland | C#, ASP.NET MVC,MSSQL, JavaScript, xUnit, Azure DevOps

- Added server-side pagination to a dynamically generated procedure-history grid whose categories reach about 1M records, fixing lag at 75k rows and timeouts on larger sets, while keeping search, sort, and filter working.
- Fixed stale data in the Product module's cache, where deleted or edited products weren't invalidated and so appeared incorrectly in new record flows; traced the expected behavior through the legacy WPF logic and implemented the invalidation.
- Resolved runtime crashes caused by legacy products missing rows in four newly added 1:1 extension tables, by creating the missing records on view/edit.
- Refactored separate edit and readonly Clinical Implants implementations into one dynamic, role-driven module, removing about 20 files while preserving exisiting logics across 30+ roles.
- Moved in-memory filtering into the database query using IQueryable in the patient address module and the admin range configuration page, so filters run in SQL Server, and applied the same fix to similar cases elsewhere.
- Replaced full-grid reloads after patient list edits with DOM-based row updates, persisting changes through the backend with server-side validation.
- Fixed data-binding crashes from records referencing soft-deleted manufacturers by adding conditional binding for historical references.
- Wrote and maintained xUnit tests around business-logic rules, updating them alongside feature changes without breaking existing behavior.
- Used the legacy WPF implementation as the reference for business rules while fixing bugs and building features; collaborated directly with a UK and Ireland-based team of developers, a tech lead, a QA lead, and a project manager through Azure DevOps pull requests, code reviews, and release pipelines.

Projects

Ambient Bliss | Event Management Website (Freelance, Client Project)| May 2025 – Dec 2025 | Live
ASP.NET MVC, Razor, SQL Server, Bootstrap

- **Full-Stack Solution:** Built a photography website for a client with ASP.NET Core MVC 9, containerized with Docker for consistent deployment across environments.
- **Database Design:** Designed the relational schema in MSSQL and queried it with LINQ.
- **Image Processing:** Implemented automatic resizing and conversion of uploaded photos to WebP to reduce file sizes for the gallery pages.
- **Administrative Control:** Built an admin dashboard that lets the client manage all content and bookings independently, and added IP-based rate limiting on the booking to block spam submissions.

DevErrorAssistant | NuGet Package
NuGet Packaging, Razor Class Library,.NET 8/9, Middleware, Groq AI API, GitHub Actions, Sensitive Data Sanitization, Xunit

- **Reusable Middleware & Architecture:** Built and published a reusable ASP.NET Core middleware that catches unhandled pipeline exceptions and renders an interactive Razor diagnostic page with collapsible stack traces, packaged as a Razor Class Library (RCL) requiring no manual view-file copying.
- **AI-Assisted Diagnostics & Security:** Integrated optional Groq AI analysis to explain root causes and suggest fixes in plain English, with best-effort secret redaction, request timeouts, and graceful fallback independent of AI availability; kept detailed exception information hidden outside Development by default.
- **Automated Testing & Publishing:** Wrote 40 xUnit tests and automated build, test, package creation, and NuGet publishing through GitHub Actions using Trusted Publishing (OIDC).

SnapBrief AI | Github
SpringBoot,FastApi,LangChain,LLM API(Gemini),PostgreSql,Docker,Microservice

- Designed a news aggregation system for Bangladeshi portals using **Spring Boot** and **RSS feeds**.
- Developed an **AI-powered** workflow to summarize and categorize news using **LangChain** and **Gemini API**.
- Integrated services through **microservices** architecture and containerized the system with **Docker**.

Technical Skills

Problem Solving: ~200 Data Structure & Algorithms problems solved (130+ on **LeetCode**) in Java and C++

Languages & Databases: C#, JavaScript, PostgreSQL, Microsoft SQL Server, Java

Frameworks & Libraries: .NET/ASP.NET Core MVC, Kendo UI, Angular, Entity Framework Core, Ajax, JQuery

Tools & Concepts: Git, GitHub, Azure DevOps, Docker ,Postman, Rest APIs, CI/CD ,Unit Testing(xUnit) ,Dependency Injection

Education

American International University Bangladesh May 2022 – Jan 2026 | Dhaka,Bangladesh
BSc in Computer Science & Engineering
CGPA: *3.92/4.00* | **Dean's List Honors X 6**: Award for Academic Excellence