

# Mohammadullah Emran

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## Summary

Software Engineer with 3+ years of experience architecting and delivering scalable backend solutions using C#, .NET Core, and Microsoft Azure. Proven track record in microservices design, database performance optimization, and end-to-end CI/CD automation. Passionate about clean architecture, TDD, and driving operational excellence.

## Work Experience

### ReliSource

Remote (US Based)

#### Site Reliability Engineer

Sept 2024 – Present

- **Architected** and maintained 6+ .NET Core microservices using Azure Service Bus and App Services, boosting overall reliability by 25%.
- **Implemented** database performance improvements in SQL Server (indexed key tables, optimized stored procedures), cutting average query time by 40%.
- **Automated** end-to-end Docker-based CI/CD pipelines with Azure DevOps, reducing deployment cycle from 45 min to 30 min.
- **Enhanced** monitoring and alerting with New Relic and Application Insights, slashing MTTR (Mean Time to Repair) by 20%.
- **Led** bi-weekly on-call rotations, triaging incidents, and coaching junior SREs on root-cause analysis.

### BizzNTek Ltd.

Dhaka, Bangladesh

#### Software Engineer

May 2023 – Feb 2025

- **Developed** RESTful APIs in ASP.NET Core, handling 10k+ requests/minute and improving page load times by 30%.
- **Led** migration from legacy .NET Framework to ASP.NET Core 6.0, achieving 99.9% uptime and 15% cost savings on Azure App Services.
- **Engineered** asynchronous messaging using Azure Service Bus and implemented resilient retry policies, increasing throughput by 20%.
- **Instituted** enterprise-grade logging (Serilog) and monitoring, reducing unknown failures by 35%.

### Apurba Technologies Ltd.

Dhaka, Bangladesh

#### Software Engineer

Apr 2022 – May 2023

- **Built** a Windows Forms “Bangla Screen Reader” leveraging Win32 DLLs and UI Automation, empowering 1,000+ visually impaired users.
- **Integrated** custom iAccessible and Win32 DLL wrappers to improve compatibility with modern .NET UIs, raising accessibility compliance from 60% to 90%.
- **Collaborated** in Scrum ceremonies, refined Jira workflows, and improved sprint velocity by 20%.

## Skills

- **Languages:** C#, JavaScript, Python, Java
- **Frameworks & Libraries:** .NET Core, ASP.NET Core MVC, Blazor, Entity Framework Core, SignalR, RESTful APIs, Microservices
- **Cloud & DevOps:** Microsoft Azure (App Services, AKS, Service Bus, Key Vault, Blob Storage), Docker, Kubernetes, Azure DevOps, GitHub Actions
- **Databases:** SQL Server, PostgreSQL, MySQL, MongoDB
- **Testing & Tools:** xUnit, NUnit, Moq, Postman, Swagger, New Relic, Application Insights
- **Architecture & Methodologies:** SOLID Principles, Clean/Onion Architecture, Repository Pattern, Agile (Scrum), TDD, CI/CD

## Education

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**American International University-Bangladesh (AIUB)**

**2019 – 2022**

**B.S. in Computer Science & Engineering**

- **Relevant Courses:** Advanced programming with .NET core, Advanced DBMS, Software architecture and design patterns, Software quality, and testing

## Projects

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**Altios Workforce Management** | .Net Core, Razor Pages, SQL Server, jQuery, Azure DevOps

- **Streamlined** operations for 5,000+ users, cutting manual tasks by 40%.
- **Integrated** Microsoft Business Central APIs, improving financial analytics by 35%.
- **Maintained** 99.9% deployment success via robust CI/CD pipelines.

**Food Court Platform** | Blazor WebAssembly, ASP.NET Core, PostgreSQL, Stripe

**Source Code**

- **Engineered** an online ordering system processing 100+ daily transactions with 100% payment success.
- **Implemented** RBAC using .NET Identity for three user tiers, enhancing security.
- **Optimized** Blazor performance, reducing load times by 20%.

**Exam and task monitoring online class stage** | .Net Core Web API, Angular, WinForm, SQL Server **Source Code**

- Built an online class platform for 180+ students using .NET Core and Angular, enabling real-time exam monitoring, and chat features, leading to a 25% increase in student engagement
- Used .NET Web API with a repository pattern for the backend and AngularJS for the front end.
- Implemented a Windows Form application for collecting student activities and capturing screenshots.
- Included features like basic chat, online classes, and exam boards for students.

## Certificates

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- **SQL (Basic)** | (Hackerrank)
- **SQL (Intermediate)** | (Hackerrank)
- **NoSQL and DBaaS 101** | (IBM)
- **AI for Healthcare in Bangladesh** | (AI4HC)