

Mishu Rahman

Software Engineer

📍 Dhaka, Bangladesh

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Software Engineer with strong experience in **C#** and **.NET** technologies. Passionate about building scalable, maintainable, and high-performance applications. Skilled in back-end development, API design. Specialized in **modernizing** legacy **ASP.NET Framework** projects to **ASP.NET Core**, improving performance, maintainability, and deployment efficiency. Seeking to contribute to a dynamic engineering team that values code quality, collaboration, and continuous learning.

📁 Work Experience

Assistant Software Engineer, OnnoRokom Projukti Ltd.

03/2024 – Present

Responsibilities:

Dhaka, Bangladesh

- Involved in Analysis, Designing and coding.
- Designed and developed applications using **OOP**, adhering to **SOLID** principles, and implementing proven **design patterns** such as Repository, Factory, Strategy.
- Modernize a legacy **.NET Framework** application to **.NET 8**, improving performance and maintainability.
- Worked with **Redis, MongoDB, SingleStoreDB, Apache Pinot**, etc. to increase performance.
- Worked with **SQL Server** and NHibernate and Optimized queries.
- Participated in sprint planning, daily standups, and code reviews in an Agile/Scrum environment.
- Wrote unit tests using xUnit and Moq, increasing code coverage and stability.

Software Engineer Intern, DevSkill

12/2023 – 02/2024

- Producing clean, efficient code based on specifications.
- Testing and deploying programs and systems.
- Fixing and improving existing software

Dhaka, Bangladesh

🎓 Education

Bachelor of Computer Science and Engineering,

2018 – 2022

City University, Bangladesh

CGPA: 3.42

🔗 Programming Language and Frameworks

C# • ASP.NET • Entity Framework • LINQ • ADO.NET • Web API • JavaScript • React • JQuery • CSS • HTML

📁 Databases

SQL Server • MongoDB • Redis • SingleStoreDB • ClickHouse • Apache Pinot

Build/Deploy & Observability

- Docker
- Cloud: AWS (EC2, S3, SQS)
- Logging: Serilog, Log4net
- Monitoring: Application Insights, OpenTelemetry, Stackify
- Unit testing: xUnit, NSubstitute
- Version Control: Git, GitHub, GitLab, CI/CD pipelines

AI & Security Awareness

- Safe use of AI-generated code, LLMs (GPT, Claude, Gemini)
- OWASP Top 10, secrets management, PII handling

Soft Skills

Excellent Debugging Skill • Problem-solving • Communication • Time management • Decision-making

Projects

Inventory Management System

- Built a web-based inventory system using **C#, ASP.NET MVC, NHibernate**, and **SQL Server**.
- Implemented role-based access with **ASP.NET Identity** and dynamic UI with **Razor + Bootstrap**.
- Added features like stock tracking, product categorization, and audit logs.
- Applied **SOLID principles**, layered architecture, and unit testing for maintainability.

Enterprise Resource Planning (ERP) System

- Migrated a legacy ERP from .NET Framework 4.8 to **.NET 8**, improving performance and maintainability.
- Developed new feature and refactored various module (**Administration, Student, Exam, Finance, Inventory**) following **SOLID** principles and Design Patterns.
- Designed and implemented the **Outbox Pattern with SQL Server and Kafka** for reliable event-driven messaging.

Tech Stack: C#, .NET, SQL Server, Kafka, Redis, SingleStoreDB

Student Portal System

- Improved system performance and scalability by refactoring backend services and optimizing database queries using **C# and .NET Core**.
- Implemented **Redis caching** with proper TTL strategies and introduced **SingleStoreDB** for high-performance caching and real-time analytics.
- Designed and implemented the **Outbox Pattern** to ensure reliable, consistent **event-driven messaging with Kafka**.

Tech Stack: C#, .NET Core, Kafka, Redis, RedisStream, SingleStoreDB, MongoDB, Apache Pinot

Online CV builder

Developed a user-centric Online CV Builder using C# and .NET following **Clean Architecture**, enabling seamless creation and customization of professional resumes for job seekers. Web view, PDF and online sharing features are implemented.

Tech Stack: C#, .NET Core, SQL Server.

<https://github.com/mishurahman616/CVBuilder> 

Contact App

This is a web application where user can store contact information and manage them. This application is made with ReactJS.

<https://github.com/mishurahman616/contact-app> 