Md. Abu Rayhan

Business Systems & .NET Engineer

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PROFILE

Business systems engineer focused on operational and financial integrity. Sole engineer behind VaatcoBMS, a manufacturing inventory, sales, payroll, and double-entry accounting system built with .NET 8 and PostgreSQL.

EXPERIENCE

Independent Systems Engineer — VaatcoBMS

Mar 2025 – Present

- Own end-to-end architecture, domain modeling, and deployment of a manufacturing business system.
- Design inventory tolerance, sales and collections, multi-level territory, payroll, product returns, and double-entry accounting workflows around explicit invariants.
- Build immutable posting, mirror-reversal corrections, and database-level concurrency protections.

Junior Software Engineer — Devsfair

Jul 2024 – Jan 2026

- Contributed RESTful APIs, reusable Blazor components, and xUnit test suites across FinTech and data-integration systems.
- Resolved production issues across API and UI layers; worked with multi-tenant data boundaries.

Backend Developer Intern — Devsfair

Dec 2023 – Jun 2024

- Contributed ASP.NET Core Web APIs, Dapper CQS data access, and Azure Blob Storage integration.

SELECTED TEAM PROJECTS

Financial Assistant Software — FinTech multi-tenant platform. Built ASP.NET Core 8 API endpoints, Azure Blob document handling, and reusable Blazor UI components for a receivables and payables platform.

Sports API — Automated data integration service. Built data-access layers, modular transformers, resilient API retry handling, recurring ETL jobs, and xUnit regression coverage.

TECHNICAL SKILLS

Languages & frameworks	C# · SQL · JavaScript · ASP.NET Core MVC / Web API · Blazor (.NET 8)
Data & persistence	Entity Framework Core · Dapper · ADO.NET · PostgreSQL (Npgsql) · MS SQL Server · MySQL
Architecture	Clean Architecture · SOLID · CQS / CQRS · Domain invariants · Double-entry ledger modeling
Testing & libraries	xUnit · Moq · FluentAssertions · QuestPDF · FluentValidation · Mapster · Serilog · Syncfusion · Telerik UI
Cloud & delivery	Azure App Service · Azure SQL · Azure Blob Storage · Docker · GitHub Actions CI/CD · Git

EDUCATION

B.Sc. in Computer Science and Engineering (CSE)
East West University — Dhaka, Bangladesh · Graduated November 2023