

# Md. Yash Rohan

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## PROFILE

ASP.NET Core Developer experienced in building secure, business-focused web applications and backend systems using Entity Framework Core and SQL Server. Skilled in REST API development, JWT authentication, role-based authorization, layered architecture, LINQ-based data access, and query optimization. Strong focus on clean API design, maintainable backend systems, performance optimization, and application security.

## PROFESSIONAL EXPERIENCE

**Software Developer**, *Devexa IT Ltd* [🔗](#) 10/2025 – Present | Dhaka, Bangladesh

- Developed ASP.NET Core RESTful APIs with JWT authentication, RBAC, request validation, and structured JSON responses.
- Optimized SQL Server queries, joins, indexing strategies, and pagination to improve API performance for data-heavy endpoints.
- Implemented service-repository patterns and controller workflows to improve separation of concerns and maintainability.
- Integrated frontend modules with backend APIs, standardizing request/response handling and ensuring consistent data flow.
- Participated in code reviews, bug fixing, API documentation, and Agile task delivery while following team coding standards.

**Research Engineer (Intern)**, *Applied Intelligence and Informatics Lab* 07/2025 – 09/2025 | Nottingham, United Kingdom

- Conducted research on machine learning models, focusing on data analysis and performance evaluation
- Reviewed and analyzed scientific literature to support model selection and experimental design decisions
- Collaborated with an international research team and documented findings for internal research reports

## SKILLS

**Languages:** C#, PHP, Python, JavaScript (ES6)

**Frontend:** HTML5, CSS3, React.js, Angular

**Backend:** ASP.NET Core Web API, ASP.NET Core MVC, Entity Framework Core, LINQ, REST APIs, Middleware

**Database:** SQL Server, MySQL, SQL Queries, Joins, Stored Procedures, Indexing, Query Optimization

**Security:** JWT Authentication, RBAC, Password Hashing, Application Security

**Architecture & Design:** Layered Architecture, SOLID Principles, Dependency Injection, Service-Repository Pattern

**Tools & Workflow:** Git, GitHub, Postman, SDLC, Agile Development, Code Review, Debugging, Technical Documentation

## PROJECTS

**HRMS - Human Resource Management System** [🔗](#), *ASP.NET Core & Angular*

- Developed an HRMS with Employee, Salary, Payroll, Authentication, and Dashboard modules using ASP.NET Core, EF Core, and SQL Server.
- Built secure REST APIs with JWT authentication, BCrypt password hashing, RBAC, FluentValidation, and centralized exception handling.
- Designed layered architecture using service-repository pattern, dependency injection, DTOs, and async EF Core queries.
- Implemented transactional payroll generation with rollback support, salary snapshots, immutable records, and duplicate prevention.
- Optimized data access using LINQ filtering, sorting, pagination, SQL indexing, and stored procedure-based reporting.
- Integrated Angular frontend with reactive forms, route guards, JWT interceptors, filtering, pagination, and dashboard analytics.

**StockFlow - Inventory System** [🔗](#), *ASP.NET Core & Angular*

- Built an inventory system with product tracking, role-based access, reporting, PDF export, and low-stock monitoring.
- Implemented APIs with JWT authentication, password hashing, RBAC, policy-based authorization, DTOs, and dependency injection.
- Designed layered architecture with API, Application, Domain, and Infrastructure layers using service and repository patterns.
- Developed product CRUD with SKU uniqueness, validation, SQL Server constraints, EF Core migrations, and structured API responses.
- Added search, filtering, sorting, pagination, low-stock reporting, stored procedures, SQL indexing, and request logging.
- Enabled Angular workflows with protected APIs, centralized error handling, route guards, and interceptor-based authentication.

**NexERP - ERP Business Management System** [🔗](#), *Laravel & React*

- Built a modular ERP platform for inventory control, sales management, POS checkout, dashboards, PDF reports, and business workflows.
- Developed secure REST APIs with Sanctum authentication, authorization, RBAC, middleware, validation, and consistent JSON responses.
- Designed normalized MySQL schemas with Eloquent relationships, migrations, seeders, foreign keys, indexes, and optimized queries.
- Built transaction-safe stock workflows and prevented overselling using database transactions, row-level locking, and aggregated checks.
- Optimized API scalability by reducing N+1 queries with eager loading, pagination, indexed filters, and dashboard caching.

**User Gateway** [🔗](#), *ASP.NET Core*

- Developed a Web API-based user management system using ASP.NET Core, Entity Framework Core, and SQL Server
- Implemented CRUD operations with search, filtering, and sorting, and built secure RESTful APIs with JWT-based authentication
- Designed a scalable and maintainable architecture following SOLID principles for clean code and separation of concerns

**Account System** [🔗](#), *ASP.NET Core*

- Developed an accounting system using ASP.NET Core and SQL Server for managing accounts and voucher transactions
- Implemented secure role-based access control (RBAC) and designed RESTful APIs for controlled financial data access
- Built reporting-ready features with CSV export and optimized database queries for performance and reliability

## EDUCATION

**Bachelor of Science (BSc) in Computer Science and Engineering**,

01/2022 – 10/2025 | Dhaka, Bangladesh

*American International University-Bangladesh*

Major: Software Engineering

CGPA: 3.69 / 4.00

## REFERENCES

**Dr. Md. Saef Ullah Miah**, *Director, Department of Computer Science, AIUB*

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