

# Muhammad Sayyedul Awwab

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## PROFESSIONAL EXPERIENCE

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- **Software Engineer** *Oct 2024 – Present*  
Echologyx Ltd, Dhaka, Bangladesh
  - Contributing to a highly scalable, event-driven e-commerce platform based in the UK, having a microservices architecture consisting of 30+ interconnected services.
  - Developing backend services using .NET Core following CQRS, Clean Architecture, and Repository Pattern.
  - Implementing inter-service communication using NServiceBus and writing unit tests with xUnit and MSpec.
  - Utilizing Azure DevOps for CI/CD pipelines.
- **Junior Software Engineer** *Sep 2022 – Sep 2024*  
Bdjobs.com Ltd., Dhaka, Bangladesh
  - Resolved 200+ critical issues and troubleshoot challenges as they arose in the existing employer system.
  - Automated invoice generation for online payments of job posting services, reducing manual processing by 60%.
  - Led the migration of the Job Posting System from legacy technology to .NET Core Web API using Layered Architecture, Repository Pattern within a collaborative team environment.
  - Migrated the Applicant Hiring Activity Process API to .NET Core Web API using Clean Architecture, Domain Driven Design, Repository Pattern, etc.
  - Developed background ETL worker services using Hangfire to migrate data from SQL Server to MongoDB.
- **Software Engineer Intern** *Jan 2021 – Apr 2021*  
BusinessBee Consulting Ltd., Dhaka, Bangladesh
  - Transformed a WordPress site to a customized application having CMS functionalities.
  - Created an admin dashboard with user authentication & authorization and content management features.
  - Built the front end using HTML, CSS, JavaScript, and backend using PHP.

## PROJECTS

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- **E-commerce Microservice - [GitHub](#)**
  - Architected a distributed e-commerce platform with Catalog, Identity, Ordering, Cart, and Payment microservices, and an API Gateway.
  - Developed backend services using .NET 8 Web API, CQRS, Clean Architecture, DDD, and Repository Pattern.
  - Integrated RabbitMQ for asynchronous messaging and Redis for caching.
  - Enabled secure access with JWT authentication and refresh tokens.
  - Used Docker for containerization and persisted data in SQL Server.
  - Integrated structured logging using Serilog and OpenTelemetry and centralized logs with Seq
  - *Ongoing development.*
- **Job Posting System Migration of bdjobs.com**
  - Analyzed legacy codebase to identify code complexity, data flow inefficiencies, and state management issues.
  - Decomposed legacy logic into modular units to support parallel development and enhance team collaboration.
  - Migrated core business functionalities to a modern backend using .NET Core Web API, applying Layered Architecture, Repository Pattern, and Clean Code principles.
  - Participated in sprint planning and code reviews, actively collaborated with front end and QA teams.
  - Integrated seamlessly with existing systems and optimized performance, resulting in 99% customer satisfaction.

- **E-commerce API (Monolith)** - [GitHub](#)

- Built a monolithic e-commerce API using .NET Core for managing products, categories, reviews, orders, and JWT-based authentication.
- Applied Clean Architecture, CQRS, DDD, and the Repository Pattern for modular and maintainable code.
- Used PostgreSQL for database operations, Redis for caching, and Docker for containerization.
- *Ongoing development.*

## SKILLS

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- **Languages:** C#, JavaScript
- **Frameworks and Libraries:** ASP.NET Core, Entity Framework Core, Dapper, MediatR, FluentValidation, xUnit (Unit Testing)
- **Architectures and Patterns:** REST APIs, Microservices, Modular Monolith, Clean Architecture, CQRS, Domain-Driven Design (DDD), Repository Pattern
- **Databases and Caching:** SQL Server, PostgreSQL, MongoDB, Redis
- **Messaging and Communication:** RabbitMQ, NServiceBus, MassTransit
- **DevOps and Others:** Git, GitHub, Docker, Azure DevOps, CI/CD, JIRA, Postman, Visual Studio, Visual Studio Code

## EDUCATION

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- **BSc in Information and Communications Engineering** *Dhaka, Bangladesh*  
Bangladesh University of Professionals (BUP) *2022*  
CGPA: 3.68/4.00
- **Higher Secondary Certificate (HSC)** *Dhaka, Bangladesh*  
Saint Joseph Higher Secondary School *2017*