Ahsan Mehmood

.NET Developer

- +92 308 6169699
- ahsanmehmood6704@gmail.com
- LinkedIn: linkedin.com/in/ahsan-mehmood
- GitHub: github.com/Ahsan483
- ahsan-tech.com

SKILLS

🔹 **Backend** – C#, .NET 8, .NET 6, .NET Core, ASP.NET Core, Web API, Entity Framework Core, Dapper, gRPC, WCF, RESTful APIs, GraphQL, MediatR, AutoMapper, FluentValidation

🔹 **Automation & Scraping** – Puppeteer Sharp, Playwright .NET, Selenium WebDriver, HtmlAgilityPack, HttpClient, Polly, Headless Chrome, Session Management, Cookie Handling, CAPTCHA Bypass (2Captcha), Proxy Rotation

🔹 **Frontend / Real-Time** – Vue.js 3, Vuex/Pinia, Vuetify, Angular 16+, RxJS, SignalR Core, TypeScript, JavaScript ES6+, Bootstrap 5, Tailwind CSS, PrimeVue

🔹 **Cloud & DevOps** – Azure App Service, Azure Functions, Azure Kubernetes Service (AKS), Azure API Management, Azure DevOps Pipelines, Azure Cosmos DB, Azure SQL, AWS EC2, S3, Lambda, Docker, Kubernetes (kubectl, Helm), GitHub Actions, Jenkins, Terraform (basic), CI/CD, Blue-Green Deployment

🔹 **Testing & Quality** – xUnit, NUnit, MSTest, Moq, FluentAssertions, Test-Driven Development (TDD), BDD, SpecFlow, Postman, Swagger/OpenAPI, JMeter, Azure Load Testing, SonarQube

🔹 **Architecture & Patterns** – Microservices, CQRS, Event Sourcing, Domain-Driven Design (DDD), Repository Pattern, Unit of Work, Clean Architecture, Vertical Slice Architecture, Mediator Pattern, Background Services, Hangfire, Quartz.NET

🔹 **Security & Authentication** – JWT, OAuth 2.0, OpenID Connect, IdentityServer4, Claims-Based Auth, Role-Based Access Control (RBAC), OWASP Top 10, Rate Limiting, CORS, XSS/CSRF Protection

🔹 **Message Queues & Integration** – RabbitMQ, Azure Service Bus, Apache Kafka (basic), MassTransit, SignalR Hubs, WebHooks, Third-Party API Integration (REST/SOAP)

◆ **Tools & Workflow** – Git, GitHub, GitLab, Bitbucket, JIRA, Confluence, Agile/Scrum, Kanban, Visual Studio 2022, VS Code, Rider, Postman, SQL Server Management Studio (SSMS)

EXPERIENCE

Enigma Software Solution, Islamabad — *.NET Developer*

November 2025 – Present

- Build scalable RESTful APIs using **ASP.NET Core (.NET 8)** and integrate with **Azure Functions** for asynchronous processing of high-volume workflows.
- Implement hybrid data architecture using **SQL Server** for transactional integrity and **Azure Cosmos DB** for low-latency NoSQL reads.
- Develop responsive front-end applications using **Angular 16**+ and **Bootstrap 5**, enhancing user experience and engagement.
- Enable real-time updates via **SignalR Core** for live client dashboards, order tracking, and notifications.
- Design and maintain **CI/CD pipelines in Azure DevOps** with **xUnit + Moq**, automated Docker builds, and AKS deployment.
- Manage version control with **Git** and **GitHub**, enforce branching strategies (GitFlow), and ensure code quality via PR reviews.
- Deploy applications on **Azure Virtual Machines** and **Azure Kubernetes Service (AKS)** with Helm charts and health probes.
- Conduct load and performance testing with **Azure Load Testing** and **JMeter** to ensure system stability under peak traffic.

MPN, Islamabad — *.NET Developer*

December 2024 – November 2025

- Engineered a **secure bonus automation platform** serving **50K+ customer requests monthly**, automating eligibility checks and payouts for a high-stakes gaming/finance client.
- Developed **rule-based bots in .NET 8** using **C# + NRules** to verify identity, deposit history, withdrawal compliance, and KYC before awarding bonuses — **reduced fraud by 85%**.
- Implemented **headless web scraping** with **Puppeteer Sharp + HttpClient + Polly** to log into third-party sites, extract user-specific data (balance, bets, timestamps), and sync with **SQL Server**.
- Designed **dynamic JSON rule engine** using **NRules + Expression Trees**, supporting complex logic (e.g., "deposit $50+ on Friday ➜ 20% bonus if no withdrawal in 7 days") — fully configurable via admin panel.

- Built **Vue.js 3 + Pinia + Vuetify** customer portal with request forms, bonus history, and **real-time status updates via SignalR Core**.
- Created **admin CRUD panel** with **role-based access (RBAC)**, audit logs, **PDF/Excel reporting (ClosedXML)**, manual overrides, and customer profile management.
- Optimized **SQL queries** with proper indexing and implemented **Redis caching (StackExchange.Redis)**, reducing bonus evaluation time from **8s to <800ms**.
- Integrated **JWT + OAuth 2.0** with refresh tokens and secure cookie handling.
- Practiced **Test-Driven Development (TDD)** with **xUnit + Moq + FluentAssertions**, achieving **90%+ code coverage** and cutting post-release defects by **45%**.
- Set up **CI/CD pipelines in GitHub Actions** with Docker multi-stage builds, SonarQube scanning, and automated testing.

Convsync, Lahore — *Backend Developer*

February 2024 – December 2024

- Refactored legacy **Quality Center (QC)** monolith into **modular Java Spring Boot microservices**, improving maintainability and reducing deployment time by **60%**.
- Developed **RESTful APIs** with **Spring WebFlux** consumed by **Angular frontend**, enabling real-time data sync across 15+ modules.
- Migrated reporting database to **PostgreSQL + Redis**, optimized complex JOINs with **Dapper**, and reduced dashboard load time from **12s to <2s**.
- Implemented **role-based access control** using **Spring Security + JWT**.
- Designed **dashboard widgets** using **React 18**, **Tailwind CSS**, and **TypeScript**, resulting in **20% faster page loads**.
- Established **React services** consuming **.NET 6 REST APIs** via **Axios + Interceptors**.
- Migrated legacy application to **.NET Core Web API** using **Clean Architecture** and deployed with zero downtime.
- Applied **TDD** using **JUnit** and **xUnit**, sustaining **85%+ code coverage**.
- Authenticated users with **OAuth 2.0 + OpenID Connect**.
- Implemented **CI/CD pipelines on GitHub Actions**, reducing deployment time by **55%**.
- Containerized services with **Docker Compose** for local and staging consistency.

Stabilis Business Solution, Delhi — *.NET Developer* (Part-time |
Project-based)

January 2023 – March 2024

- Delivered **scalable CRUD backend services** in **.NET Core** using **Entity Framework Core + Dapper**, supporting **50K+ daily transactions** across client projects.
- Implemented **Hangfire** for recurring jobs: bulk imports, exports, and scheduled reports.
- Integrated **payment gateways (Stripe, PayPal)** and **SMS APIs (Twilio)** with **Polly** retry and circuit breaker policies.
- Built **RESTful APIs** with **FluentValidation**, **AutoMapper**, and **MediatR** (CQRS pattern).
- Designed and optimized **SQL Server** schema with stored procedures, views, and execution plans.
- Practiced **TDD** with **xUnit + Moq**, achieving **88% code coverage** and reducing production issues by **40%**.
- Deployed via **Docker** and **GitHub Actions** with automated build, test, and push to registry.
- Handled on-demand sprints: issue triage, root cause analysis, and rapid hotfixes.

Inibuilds, London — *Game Backend Developer* (6-Month Contract)

August 2022 – January 2023

- Designed **multiplayer game backend** using **Unigine Engine + C#/.NET**, handling real-time entity sync, physics, and automation scripts.
- Implemented **WebSocket telemetry** with **SignalR Core**, streaming 1K+ events/sec to analytics dashboard.
- Built **automation bots** in C# using **Task Parallel Library (TPL)** for load testing game logic.
- Deployed **game servers on AWS EC2** with **Auto Scaling Groups**, **ELB**, and **CloudWatch** alarms.
- Used **Redis** for session state, leaderboards, and pub/sub messaging.
- Wrote **unit and integration tests** using **NUnit + Moq**, achieving **92% coverage**.
- Delivered features in **2-week Agile sprints** with full documentation and knowledge transfer.

EDUCATION

FAST NUCES, Islamabad, Pakistan

BS Computer Science • March 2019 – April 2023