

NOOR E BILAL

House # k-161, Pakki Kotli, Daska road, Sialkot.

Email: m.noor.e.bilal@gmail.com

Phone: +92 302 0615266

LinkedIn: [Noor-e-Bilal](#)



OBJECTIVE

Seeking a Software Engineer role where I can apply my 5+ years of hands-on experience building enterprise applications with C#, ASP.NET Core, and the broader .NET ecosystem. I've shipped production systems handling thousands of daily users from web APIs and desktop apps to IoT integrations and I genuinely enjoy solving tricky architectural problems. I want to join a team that values clean code, solid engineering practices, and building software that makes people's work easier.

EDUCATION

- UNIVERSITY OF SIALKOT 2022
BS Software Engineer
3.0 / 4.0

EXPERIENCE

- MIS University of Sialkot - internee/ Junior Software Engineer** 10 Mar 2020 - 13 Feb 2021
Built server-side utilities in C# for automated database syncing and backup scheduling, which cut manual IT work by roughly 60%. Created a query management system using ASP.NET MVC that let departments resolve student disputes without endless email chains. Also developed internal web tools with Razor Pages that simplified daily admin tasks across multiple departments.
27 May 2021 - 24 Jul 2022
- Technosofts - Software Engineer**
Designed and built multi-platform applications using C# and .NET desktop apps with WPF, web applications with ASP.NET Core, and cross-platform mobile apps with Xamarin. Managed a team of 4 developers, running code reviews and sprint planning. Worked extensively on e-commerce backends: payment processing with Stripe integration, inventory management APIs, and order fulfillment systems all built on .NET Core with Entity Framework for data access.
05 Nov 2022 - 18 Jul 2025
- MIS University of Sialkot - Senior Software Engineer**
Leading the development of several mission-critical systems using C# and ASP.NET Core. Built a journal management platform with role-based workflows, document versioning, and automated review assignments. Created the ResearchNex portal (ORIC) that tracks faculty publications, patents, and conference papers currently managing 500+ research records. Developed a multi-factor authentication system combining fingerprint scanners and CCTV feeds using C# for the backend processing and ML.NET for facial recognition. Also maintaining Windows Services for automated backups, log rotation, and server health monitoring.
11 Aug 2025 - Present
- Aquila360 - Senior Software Engineer (Current)**
Building enterprise .NET applications for international clients across the UK, Middle East, and Europe. Primarily working on multi-tenant SaaS products using ASP.NET Core, handling everything from API design to Azure deployments. Leading development on an asset booking platform serving 15+ organizations. Also involved in client-facing technical discussions, mentoring junior devs, and keeping our CI/CD pipelines running smoothly in Azure DevOps.

SKILLS

C# & .NET Core/Framework

- Writing production C# code daily for 5+ years comfortable with async/await patterns, LINQ, generics, and dependency injection
- Building RESTful APIs with ASP.NET Core Web API, including proper versioning, rate limiting, and OpenAPI documentation
- Working with Entity Framework Core for database operations code-first migrations, query optimization, and handling complex relationships
- Implementing CQRS and MediatR patterns in larger applications where it actually makes sense

Web Development

- ASP.NET Core MVC and Razor Pages for server-rendered applications
- Blazor Server and WebAssembly for interactive web UIs without JavaScript heavy-lifting
- SignalR for real-time features like notifications and live dashboards
- Proper authentication with ASP.NET Identity, JWT tokens, and OAuth2/OpenID Connect

Desktop & Mobile

- WPF applications with MVVM pattern for internal business tools
- .NET MAUI for cross-platform mobile and desktop apps (migrated from Xamarin)
- Windows Services for background processing and scheduled tasks

Database & ORM

- SQL Server as primary database writing stored procedures, optimizing queries, managing indexes
- Entity Framework Core with Repository and Unit of Work patterns
- Dapper for performance-critical queries where EF overhead matters
- Database migrations and schema management in team environments

DevOps & Cloud

- Azure deployments: App Service, Azure Functions, Azure SQL, Blob Storage
- CI/CD pipelines with Azure DevOps build, test, and deploy automation
- Docker containers for .NET applications
- IIS configuration and troubleshooting on Windows Server

SKILLS

Internet of Things (IoT) Specialist

- Building IoT gateways and edge applications using C# and .NET
- Azure IoT Hub integration for device management, telemetry ingestion, and cloud-to-device messaging
- Developing device firmware communication layers in C# for Raspberry Pi and similar hardware
- Real-time data processing pipelines using Azure Functions and Event Hubs
- SignalR for pushing live sensor data to monitoring dashboards
- ML.NET for on-device anomaly detection and predictive maintenance models

CORE SKILLS

Architecture & Patterns

- Clean Architecture and Domain-Driven Design in .NET projects
- SOLID principles applied practically, not just theoretically
- Design patterns: Repository, Factory, Strategy, Observer used where they solve real problems
- Unit testing with xUnit/NUnit and mocking with Moq
- Integration testing for Web APIs and database operations

Integrations & APIs

- Payment processing: Stripe and PayPal SDK integration in C#
- Third-party API consumption: HttpClient, Polly for resilience, proper retry logic
- Building webhook endpoints and handling asynchronous callbacks
- Google Maps, WhatsApp Business API, and social media integrations

Tools & Workflow

- Visual Studio and VS Code as daily drivers
- Git for version control, comfortable with branching strategies and pull request workflows
- Postman and Swagger for API development and testing
- SQL Server Management Studio and Azure Data Studio for database work
- 5+ years shipping .NET applications in production environments

INTERESTS

- I am passionate about sharing my knowledge and often volunteer as a mentor for aspiring developers, conducting coding workshops and hackathons. In my free time, I enjoy exploring new technologies, experimenting with .Net and IoT projects, and contributing to open-source software. My dedication to continuous learning and community engagement is a cornerstone of my personal and professional growth journey. This commitment to learning and engagement fuels my drive for innovation and excellence in the tech industry, ensuring that I stay at the forefront of advancements and deliver impactful solutions for the challenges of tomorrow.
- In my downtime, I find relaxation and revival through gaming. Immersing myself in different worlds and challenges not only provides an enjoyable escape but also sharpens my problem-solving skills dynamically and interactively. Whether it's exploring fantastical realms or competing in strategic battles, gaming is a vital part of unwinding and balancing my passion for technology with leisure.

PROJECTS

- **NopCommerce (Remote Upwork)**
Developed custom NopCommerce plugins in C# and ASP.NET Core for various Upwork clients. Built a warehouse inventory sync plug in that connected NopCommerce with third-party logistics APIs. Created custom shipping calculators and payment gateway integrations. Worked directly with the NopCommerce plugin architecture dependency injection, service overrides, and database schema extensions using Entity Framework Core migrations.
- **University of Sialkot's Websites**
Built the university's main web portal using ASP.NET Core MVC with a SQL Server backend. Developed a content management system for the communications team to update news, events, and department information without IT involvement. Created the online admissions portal handling 5,000+ applications per semester form validation, document uploads to Azure Blob Storage, and automated email notifications. Integrated with the existing LMS using REST APIs for single sign-on and student data synchronization.

- **JADI Alinjaz**

Developed a bilingual (Arabic/English) corporate website for a Middle East construction company. Built the backend API with ASP.NET Core Web API, handling project portfolio management, career applications, and contact form submissions. Created an admin dashboard using Angular that let the marketing team manage project galleries, upload case studies, and track website analytics. Implemented proper RTL support and localization using .NET's resource file approach.

- **Smart Green House System (IOT Based Project)**

Built an automated greenhouse monitoring system using C# running on a Raspberry Pi. Sensors feed moisture and temperature readings to an ASP.NET Core Web API hosted on Azure. Created a Blazor Server dashboard displaying real-time sensor data via SignalR. The system triggers irrigation pumps and ventilation fans based on configurable thresholds all controlled through the web interface. Used Azure IoT Hub for device management and telemetry storage.

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- **Distribution Management System**

Developed a distribution management system with a WPF desktop application for warehouse staff and a .NET MAUI mobile app for delivery drivers. The backend runs on ASP.NET Core Web API with SQL Server. Features include route optimization, real-time delivery tracking, invoice generation using QuestPDF library, and integration with accounting software via API. Built comprehensive reporting with exportable Excel files using EPPlus and PDF reports.

- **Installment Management System-based POS**

Created a point-of-sale system with installment tracking for a retail business using ASP.NET Core MVC and SQL Server. The system handles sales transactions, generates payment schedules for customers buying on credit, and tracks receivables with automated reminder notifications. Built role-based access for sales staff, branch managers, and accountants. Included a dashboard showing daily sales, outstanding payments, and profit margins using Chart.js with data served from .NET APIs.

- **IOT based attendant and monitoring system**

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Led a team of 3 developers building a campus-wide student identification system. The solution combines fingerprint scanners at entry points with CCTV facial recognition as a secondary verification. Built the backend in C# with ASP.NET Core, handling biometric data processing and matching. Used ML.NET for facial recognition model training on student photos. Created a Windows Service that processes attendance logs in real-time and flags anomalies. The admin portal (Blazor Server) shows live attendance status across all campus buildings with historical reporting.

- **Event Management system**

Built an end-to-end event management platform using ASP.NET Core Web API and Angular frontend. The system handles event creation with customizable registration forms, ticket sales with Stripe integration, and automated email confirmations via SendGrid. Developed a QR code-based check-in system using a .NET MAUI mobile app for event staff. Features include attendee management, waiting lists, discount codes, and post-event surveys. The reporting module tracks registrations, revenue, and attendance patterns. Currently used for university conferences and public seminars, processing 200+ registrations per event.

- **ResearchNex(ORIC Portal)**

Developed ResearchNex, a research management portal for the university's ORIC department using ASP.NET Core MVC and SQL Server. The system tracks faculty publications across categories: journal articles, conference papers, books, theses, and patent applications. Built a submission workflow with department head approvals and automatic categorization based on journal impact factors. Integrated with Google Scholar and ORCID APIs to auto-populate publication metadata. Features include collaboration tracking (co-authors across departments), research output reporting for accreditation, and DOI link verification. Currently managing 500+ publication records with 80+ active researchers.

- **Cloud Kitchen**

Built a comprehensive cloud kitchen management system with ASP.NET Core Web API backend and Angular frontend. The platform handles multi-branch restaurant operations: online ordering, kitchen display systems, delivery management, and POS terminals. Developed real-time order tracking using SignalR customers see their order status from confirmation to delivery. Integrated with third-party delivery services (Foodpanda, Careem) via their APIs. Built inventory management with low-stock alerts and automatic purchase order generation. The HRM module handles staff scheduling across branches, while CRM tracks customer preferences and order history for targeted promotions. Processing 300+ daily orders across 3 branches in production.

- **Asset Booking & Management System (Aquila360 - International Client)**

Developed a full-fledged SaaS platform for asset booking and management, serving clients across the UK and Middle East. The system is built from the ground up as a multi-tenant application using ASP.NET Core Web API with Angular frontend. Each organization gets their own isolated data environment while sharing the same application infrastructure implemented using a hybrid approach with tenant identification via subdomain and JWT claims. The platform handles everything from meeting room bookings and equipment reservations to vehicle fleet management and shared workspace scheduling. Built a flexible asset configuration system where tenants can define their own asset types, custom fields, and booking rules without touching code. The booking engine handles complex scenarios: recurring reservations, conflict detection, approval workflows, and automatic reminders via email and SMS.