

# Noor E Bilal

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## ABOUT

### SENIOR SOFTWARE ENGINEER | SENIOR FULL-STACK DEVELOPER | DEVOPS

- 6+ years building enterprise applications across C#/ASP.NET Core backends and React, Angular, and React Native frontends, shipping production systems used by thousands of daily users
- Currently leading development of a multi-tenant SaaS asset booking platform for international clients across the UK, Middle East, and Europe
- Full-stack and cross-platform experience Angular/React dashboards, React Native and .NET MAUI mobile apps, and IoT integrations (Azure IoT Hub, Raspberry Pi)
- Track record of mentoring developers, leading small teams, and improving delivery through clean architecture and CI/CD

## EDUCATION

- **UNIVERSITY OF SIALKOT — Sialkot, Pakistan** 2018-2022  
BS Software Engineering

## EXPERIENCE

- **Aquila360 — Senior Software Engineer (Lahore, Pakistan)** 11 Aug 2025 - Present
  - Leading development of a multi-tenant SaaS asset booking platform serving 15+ international organizations across the UK, Middle East, and Europe.
  - Own API design through Azure deployment, working across ASP.NET Core, Azure App Service, and Azure DevOps CI/CD pipelines.
  - Mentor junior developers and lead client-facing technical discussions for enterprise .NET solutions.
- **MIS University of Sialkot — Senior Software Engineer (Sialkot, Pakistan)** 05 Nov 2022 – 18 Jul 2025
  - Led development of mission-critical systems including a journal management platform with role-based workflows, document versioning, and auto review assignments.
  - Built ResearchNex (ORIC), a research portal tracking 500+ publication, patent, and conference records for 80+ researchers.
  - Developed a multi-factor authentication system combining fingerprint scanners and CCTV facial recognition, using ML.NET for on-device detection.
  - Maintained Windows Services for automated backups, log rotation, and server health monitoring, reducing manual maintenance effort by 70%.
- **Technosofts — Software Engineer (Sialkot, Pakistan)** 27 Oct 2020 - 24 Jul 2022
  - Designed multi-platform applications: WPF desktop apps, ASP.NET Core web apps, and Xamarin cross-platform mobile apps.
  - Managed a team of 4 developers, running code reviews and sprint planning.
  - Built e-commerce backends including Stripe payment processing, inventory management APIs, and order fulfillment on .NET Core with Entity Framework.
- **MIS University of Sialkot — Junior Software Engineer / Intern (Sialkot, Pakistan)** 10 Mar 2020 - 13 Sep 2020
  - Built server-side C# utilities for automated database syncing and backup scheduling, cutting manual IT work by roughly 60%.
  - Developed a query management system in ASP.NET MVC that let departments resolve student disputes without email chains, reducing resolution time to 2-6 hrs/query.
  - Built internal admin tools using Razor Pages, streamlining daily tasks across 30+ departments.

## TECHNICAL SKILLS

- Backend & API Engineering:**  
C#, .NET, .NET Core, ASP.NET Core, ASP.NET MVC, Web API, Entity Framework Core, Dapper, REST APIs, SignalR
- Frontend & Full-Stack Development:**  
React, Angular, React Native, .NET MAUI, Blazor, Razor Pages, JavaScript, TypeScript, HTML, CSS
- Cloud, DevOps & Infrastructure:**  
Microsoft Azure, Azure App Service, Azure Functions, Azure IoT Hub, Azure Blob Storage, Azure SQL, Azure DevOps, CI/CD, AWS, Terraform, Docker, IIS
- Databases & Data Engineering:**  
SQL Server, Azure SQL, MongoDB, Redis, Stored Procedures, Query Optimization, Indexing, Database Design, Entity Framework Core, Code-First Migrations
- Software Architecture & Engineering:**  
Clean Architecture, Domain-Driven Design (DDD), SOLID Principles, CQRS, MediatR, Repository Pattern, Unit of Work, Factory, Strategy, Observer, Multi-Tenant Architecture
- Security & Identity:**  
OAuth 2.0, OpenID Connect, Role-Based Access Control (RBAC), Single Sign-On (SSO), Passkey Authentication, Multi-Factor Authentication (MFA)
- Testing & Quality:**  
xUnit, NUnit, Moq, Unit Testing, Integration Testing, Testable Architecture
- IoT, Edge & Real-Time Systems:**  
Azure IoT Hub, Raspberry Pi, C#/.NET Edge Gateways, Device Management, Telemetry, Cloud-to-Device Messaging, Azure Event Hubs, Real-Time Data Pipelines, ML.NET
- Third-Party & Platform Integrations:**  
Stripe, PayPal, Google Maps, WhatsApp Business API, OpenAI/LLM APIs, OAuth 2.0/OpenID Connect, Payment Gateway Integration, Logistics API Integration
- Development Tools & Workflow:**  
Git, Git Branching & PR Workflows, Visual Studio, VS Code, Postman, Swagger/OpenAPI, Jira, AI-Assisted Development, Azure Data Studio

- **Postal360 | UK-based client**

Built a flexible temporary and custom-domain email platform that allowed teams to provision mailboxes on managed domains or connect their own domains without requiring separate mailbox infrastructure. Introduced controlled team-only mailboxes, API-key protection, and wildcard/alias addressing to support flexible per-client and per-team email workflows.

- **JADI Alinjaz | Foreign client — Middle East**

Developed a bilingual corporate platform for a construction company, centralizing project portfolios, career applications, contact inquiries, and case-study content into a manageable digital presence. Enabled the internal team to manage galleries and project content independently while supporting Arabic/English localization and RTL workflows.

- **Cloud Kitchen | Foreign client**

Centralized ordering, kitchen, delivery, and POS operations across 3 production branches, replacing fragmented workflows with a unified operational platform. Introduced real-time order visibility and integrated third-party delivery services, supporting 300+ daily orders in production and improving coordination between kitchen and delivery operations.

- **NopCommerce Plugin Development | Foreign clients — Upwork**

Developed custom e-commerce extensions to address client-specific warehouse, shipping, logistics, and payment requirements that were not supported by standard platform functionality. Integrated third-party logistics and payment services, including inventory synchronization and custom shipping calculations, enabling clients to connect their existing commerce operations with external systems.

- **Smart Green House System | Foreign client — IOT**

Automated greenhouse monitoring and environmental control by connecting physical sensors with a centralized monitoring platform, replacing manual observation with continuous data-driven monitoring. Implemented configurable thresholds for automated irrigation and ventilation while providing real-time visibility into device and environmental conditions.

- **LoadGate — Asset Management System | Foreign client**

Developed a multi-tenant asset management platform enabling organizations to centrally manage and share assets while keeping tenant data and access securely separated. Implemented centralized authentication and SSO across tenants, simplifying secure access for organizations managing shared resources.

- **Distribution Management System | Local client**

Connected warehouse operations, delivery teams, and accounting workflows through a unified distribution platform, reducing dependency on disconnected operational processes. Supported route planning, real-time delivery tracking, invoice generation, and accounting-system integration across desktop warehouse and mobile delivery workflows.

- **Event Management System | Local client**

Digitized the end-to-end event lifecycle from registration and payment through attendee check-in, replacing fragmented manual processes with a centralized event workflow. Supported 200+ registrations per event while integrating online payments and QR-based check-in for university conferences and public seminars.

- **ResearchNex | ORIC Portal — University of Sialkot**

Replaced fragmented research-record management with a centralized portal for publications, patents, and conference activity, with structured approval workflows for department heads. Automated research metadata collection through external academic services, reducing repetitive data entry while supporting 500+ records across 80+ researchers.

- **IoT Based Attendance Monitoring System | Local clients**

Replaced manual attendance monitoring with a campus-wide identification and processing system combining biometric devices and computer-vision-based identification. Automated real-time attendance processing and anomaly detection through background services, with centralized monitoring across campus buildings and a live administrative portal.

- **X--Pilot Wallet**

Developed a non-custodial XRP Ledger wallet that gives users direct control of their assets while supporting both mainnet and testnet environments. Added on-chain DEX trading, passkey authentication, secure seed management, and transaction/market notifications to combine wallet security with integrated trading and activity monitoring.