



MAROOF KHAN

Senior Software Engineer

Experienced software developer with strong expertise in Microsoft .NET technologies and a proven track record of overcoming complex challenges through continuous learning, advanced technology adoption, and collaboration with industry experts. Enthusiastic about applying skills across diverse business domains to support digital transformation initiatives. Currently focused on integrating AI approaches into the Software Development Lifecycle and developing agentive AI-driven solutions.

PROFILE

"I bring extensive experience in software development with Microsoft .NET technologies, where I have consistently turned challenges into opportunities for growth.

By learning new concepts, adopting emerging technologies, and drawing inspiration from senior professionals, I have successfully contributed to delivering impactful solutions in dynamic environments.

I am deeply passionate about embracing new challenges across diverse business domains and driving digital transformation through innovative software practices.

Currently, I am expanding my expertise in Artificial Intelligence, exploring how modern AI approaches can be applied within the Software Development Lifecycle to create intelligent and agentive solutions that add real business value."

SKILLS

Languages

VB.NET, C#, JavaScript, C, C++, VB6, Fortran.

Technologies

.NET Framework, Net Core 8.0
ASP.NET MVC, ASP.NET Web Form
Web API, JSON
.NET Blazor Server, SQL Queries,
Performance Tuning, Crystal reports/
Microsoft Reporting, .NET MUI
Source Control

Desktop

Windows Services/API, WinForms, WPF, XAML

Frontend

React, HTML, CSS, JavaScript, Bootstrap, Material UI

EXPERIENCE (14 YERS)

Senior Software Engineer

(2021 - Now)

At 13thjune Infotech Pvt. Ltd., Goa (Remote)

Software Engineer – U.S. Healthcare Billing Solutions

- Designed, developed, and maintained comprehensive **digital solutions** for U.S. healthcare service provider billing, including a **desktop application** with Windows-based UI, background scheduler services for processing billing EDI files, and a **mobile app** enabling employees to log services and time entries directly at client sites.
- Modernized legacy systems by **migrating from .NET Framework 3.5 to 4.8**, and further enhancing capabilities with **.NET Core 8.0** and **Blazor**, ensuring scalability and long-term maintainability.
- Contributed to digital transformation by developing a **web-based billing platform** and expanding the technology stack with **React.js** for modern, responsive front-end experiences.
- Applied best practices in **source control and collaboration** using GitHub, provided **team mentorship**, and ensured timely delivery under **Agile/Scrum sprints**.
- Conducted **SQL query optimization and performance tuning** to improve system efficiency and data handling.
- Delivered robust reporting solutions using **Crystal Reports** and **Microsoft Reporting Services**.

Key Technologies: .NET Framework (3.5–4.8), .NET Core 8.0, Blazor, VB.NET, C#, ASP.NET MVC, Web API, React.js, SQL Server, Performance Tuning, Crystal Reports, Microsoft Reporting, .NET MAUI, Azure

Freelancer Software Engineer

(2019 - 2021)

(Remote)

Software Solutions Developer – Global Projects (USA, UK, Australia, etc.)

Delivered end-to-end software solutions across diverse business domains by successfully bidding and executing projects for clients in the USA, UK, Australia, and other regions. Key contributions include:

- **Education Solutions**
 - Built a **College Exam Management System** as a WPF/XAML desktop application with SQL Server backend.
 - Developed a **College Counseling & Admission Management Platform** using **Blazor** and SQL Server to streamline student admissions and counseling workflows.

ACADEMIC

PGDCA (IGNOU)
B.Sc. (Physics, Mathematics)

OTHER ACTIVITIES

- 1) Creating proof of concepts
- 2) Playing with data analysis and A.I. activities, like reading about different models and their training approaches
- 3) Reading on implementation of Agentive A.I.
- 4) Utilizing Azure DevOps.

CONTACT

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- **Government & Compliance Integrations**
 - Integrated **GST/E-Way Bill compliance** using government APIs, including a **C++ wrapper library** for fingerprint authentication (Cogent) with C# and REST APIs.
 - Implemented **secure fingerprint login** for a desktop app handling **bulk Excel-to-SQL inserts**, with encryption applied to all data while maintaining high performance for insert/read operations.
- **Enterprise Solutions**
 - Designed a **web-based file explorer** using **Blazor** and C#.
 - Built independent applications that integrated with **Fishbowl Inventory (Australia)** to automate billing, shipment management, and label printing using C# and Fishbowl APIs.
 - Implemented a **native Meta Stock library integration** via a **C++** wrapper to provide real-time stock market data through C#.
- **Legacy System Modernization**
 - Migrated a legacy ASP project to a modern **ASP.NET Web Forms** solution.
 - Delivered a **Multi-Level Marketing (MLM) business plan web solution** using **ASP.NET MVC**.
- **Application Migration – C# to VB.NET**
 - Migrated a **QuickBooks-integrated** C# application to VB.NET, ensuring smooth functionality and compatibility with existing APIs.
 - Technologies: **QuickBooks API, C#, VB.NET**

WPF Trainer – ThinkQuotient (3 Months)

- Delivered **corporate and academic training sessions** on **WPF, XAML, MS SQL, and UI design**, enabling participants to build scalable desktop applications with modern interfaces.
- Designed and conducted **hands-on workshops**, covering real-world use cases and best practices in WPF application development.
- Mentored trainees in **UI/UX design principles**, binding techniques, data access, and performance optimization with SQL Server.

Software Engineer

(2011 - 2019)

At Abaris Softech New Delhi (Remote)

C++ Dynamic Link Library, to facilitate the Stock Traders.

- Retrieve and display **live stock market rates and historical data**.
- Implement **search functionality** for quick access to specific stocks.
- Enable users to **buy and sell stocks seamlessly** within the system.
- Maintain comprehensive **transaction and portfolio records** for tracking and analysis.

Web-Based Auto Service Center Management System (Hero Honda)

- **Role:** Developer | **Client:** Hero Honda Dealers | **Location:** Noida
- Designed and implemented the **AutoSS system** to connect multiple Hero Honda service centers across the state, enabling seamless **transaction processing, billing, inventory control, employee management, reporting, and customer service**.
- Built a secure **login and role-based access system** to streamline operations and improve management oversight.

Technologies: C#, ASP.NET 1.1, SQL Server 2000, XML, VS.NET 2003–2010

Web-Based Application for College Management

Restaurant POS (Desktop Application)

- Built a Point-of-Sale desktop application for restaurant operations, including billing, order management, and reporting.
- Delivered dynamic reports using Crystal Reports integrated with SQL Server.

Technologies: C#, WPF, XAML, Crystal Reports, MS SQL Server

Hotel Management System (Desktop Application)

- Developed a comprehensive hotel management system covering room booking, customer management, billing, and reporting.
- Delivered user-friendly desktop UIs with WPF/XAML and reporting via Crystal Reports.

Technologies: C#, WPF, XAML, Crystal Reports, MS SQL Server

Windows Desktop Utilities – Downloader, Installer, Database Automation & Subscription Based Licensing

- Built desktop automation tools to manage software installation, updates, database synchronization, and licensing enforcement.
- Improved deployment efficiency and reduced manual overhead.

Technologies: C#, WPF, XAML, API Integration

Web ERP Solutions (B2B & HR Management)

- Developed web-based ERP solutions supporting B2B services, HR management, employee workflows, and reporting.
- Implemented responsive UI with Bootstrap/jQuery/AJAX, backed by robust APIs and Entity Framework for efficient data handling.

Technologies: C#, ASP.NET MVC, Entity Framework, SQL Server 2012, APIs, Bootstrap, jQuery, AJAX

College & Freelancing Projects

(2007 - 2011)

Delivered end-to-end development of multiple **enterprise-grade web applications** across project management, asset management, invoicing, bulk communications, and booking systems. Key contributions include:

- **Project Management System** – Built a comprehensive web platform for **planning, tracking, and managing projects**, with real-time task updates, reporting, and collaboration features.
- **Asset Management & Tracking System** – Designed and developed a solution to **manage, track, and report enterprise assets**, ensuring improved utilization and accountability.
- **GST Invoicing System** – Implemented a compliant invoicing platform integrated with the **GST portal API** and **signed QR code generation**, with inventory management capabilities.
- **Bulk Mail Sender (Web-Based)** – Developed a high-volume **bulk email sending system** with scheduling, campaign tracking, and reporting features.
- **Appointment Booking System** – Delivered a robust web-based appointment scheduling solution with **user-friendly interfaces**, integrated APIs, and calendar-based booking workflows.
- **Simple Banking System (Academic C++)** – Create an account, deposit/withdraw money. Show balance and transaction histories, following microservices structure for transaction response guarantee.

Technologies: ASP.NET MVC, ASP.NET Core 3.1, **C++**, C#, Entity Framework, Razor, Web API, RESTful API, SQL Server 2012 R2, Bootstrap, jQuery, AJAX