Muhammad Khizar Bajwa
Senior Software Engineer – .NET Full Stack Developer

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Professional Summary

Full-Stack Software Engineer with 7+ years of experience delivering scalable web and enterprise applications using ASP.NET, .NET Core, Angular, and modern DevOps practices. Proven success designing end-to-end solutions across finance, ERP, and analytics domains, with hands-on leadership in monolithic, n-layered, and microservices architectures. Skilled in RESTful APIs, SQL performance tuning, and cloud-native development using jenkins, Docker, AWS, and CI/CD pipelines. Currently based in the U.S. with industry experience across both startup and enterprise environments. Passionate about building clean, performant code that solves real business problems.

EDUCATION

Cleveland State University   **Cleveland, Ohio**
Master of Science in Computer Science   *Expected Graduation, May 2026*

COMSATS University Islamabad   **Islamabad, Pakistan**
Bachelor of Science in Computer Science   *Completed in, 2018*
- o   Related Coursework: Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Object-Oriented Programming.

ACADEMIC PROJECTS & LEADERSHIP

1. **Final Year Project –** Feedback through Facial Expression
   Stack: Python, OpenCV, DLIB, R
   Desc: Built a real-time feedback system using facial emotion recognition. Trained classifiers on 13,000+ labeled images using SVM and statistical models in R. Led dataset collection, preprocessing, and model evaluation phases.
2. **Teaching Assistant – COMSATS University**
   Stack: Python Programming
   Desc: Mentored 60+ students across two semesters in introductory Python courses. Helped students debug assignments and understand core programming concepts.

Core Competencies

• **Languages**: C#, Python, JavaScript, TypeScript, SQL. • **Frameworks**: .NET Core (MVC, Web API, Hub), ASP.NET MVC, Entity Framework, Angular (2+). • **Databases**: SQL Server, PostgreSQL, MySQL, Redis, SQLite.	• **Architecture & Design**: Monolithic, N-Layered, Onion, Microservices, CQRS, RESTful APIs, Design Patterns (MVC, DI/IoC, Singleton). • **DevOps & Cloud**: Jenkins, Docker, AWS (EC2, S3), Proxmox VE, CI/CD, UrbanCode Deploy.	• **Security Tools**: VeraCode, SonarQube, Rapid7, Checkmarx. • **Development Tools**: Git, Azure DevOps, Jira, BitBucket, Visual Studio, Postman, Swagger. • **Methodologies**: Agile/Scrum, Kanban, TDD, Sprint Planning, Backlog Grooming, Storyboarding, Retrospective.

ADDITIONAL TOOLS & INTEGRATIONS

- **APIs & SDKs**:   Zoom SDK, Twilio, MaxMind GeoIP, AWS MediaLive
- **Utilities**:   IBM Jazz (RTC, CCM), UrbanCode Deploy, RTC Workflow Management
- **Design & Modeling**:   MS Visio, Draw.io, UML
- **Security Testing**:   Burp Suite, SQL Injection, Traffic Exploitation (educational use)
- **Remote Access**:   Putty, FileZilla, RDC, Rust Desk
- **Web Servers**:   IIS, Kestrel, Nginx, Apache (XAMPP)

Projects | Experience

ISaleBestLLC - 2023 to Present	
Role	Senior Software Engineer
Tech Stack:	C#, Angular 10+, REST APIs, PostgreSQL, Docker, Python, Jenkins, AWS, Proxmox, T-SQL, Rapid7, Veracode, Pycharm, Jupyter Notebook, Windows, Linux, MSSQL, SQL
	- Developed a **Warehouse Management System** using ASP.NET Core and Angular, reducing inventory errors and improving stock tracking accuracy. - Built a **Patient Management Portal** for a clinic, enabling digital records, appointment scheduling, and efficient patient follow-ups. - Engineered a **Payroll & Role-Based Access System** with automated salary processing and integrated notification workflows. - Created a **Remote Desktop Monitoring Tool** in Python to capture screenshots and user activity, enhancing oversight for remote teams. - Launched an **Internal Blog Management System** with role-based workflows for authors, reviewers, and publishers. - Designed a **Configuration Management Portal**, allowing dynamic, admin-level updates to application settings. - Developed **Data Scraping Pipelines** for chemical inventory normalization and reporting; delivered business-specific reports. - Led a project to compile a **Legal Services Directory** by scraping multiple sources, transforming raw data into a searchable database. - Identified and remediated vulnerabilities flagged by **Rapid7** and **Veracode** for compliance and system hardening.

Strategic Systems International (SSI) - Jan 2021 – Jan 2022	
Role	Senior Software Engineer
Tech Stack:	ASP.NET Core, C#, Dapper, Entity Framework, MySQL, T-SQL, Syncfusion, Agile, REST APIs
	- Maintained and modernized the **GfK Shopper Insight (SIMIT)** platform, enabling data-driven retail insights for 1000+ store locations. - Migrated core modules from legacy ASP.NET to **ASP.NET Core**, implementing a clean N-Tier architecture with Dapper and EF Core. - Integrated charts and interactive dashboards for analytics teams, enhancing visualization of in-store KPIs. - Rewrote slow-performing queries and APIs, improving system responsiveness and report load times. - Collaborated with cross-functional teams in **Agile sprints**, participating in planning, stand-ups, code reviews, and retrospectives. - Mentored two junior engineers, introducing best practices for dependency injection, layered design, and testable C# code.

Decoin.io (Blockchain Exchange) - Aug 2019 – Jan 2021	
Role	Full Stack Software Engineer
Tech Stack:	ASP.NET Core, Angular 10, Entity Framework, RabbitMQ, MySQL, PHP, AWS, Microservices, Bootstrap, Signlr, Webhook, Zoom SDK, AWS Media Live, Ubuntu Server, Rest Api's, Cron Job, MS Visual Studio, Windows, Linux, Burp Suite, MSSQL, SQL

- Designed and maintained core modules for a **digital currency exchange platform** serving 10,000+ users across multiple regions.
- Upgraded legacy systems to **.NET Core microservices**, improving performance, maintainability, and deployment pipelines.
- Integrated **RabbitMQ** message queues to enable scalable transaction handling and asynchronous event processing.
- Developed a secure **KYC onboarding and identity verification module**, streamlining compliance and user activation.
- Implemented key features in the Angular 10 front-end, including real-time market views and user portfolio dashboards.
- Optimized **SEO and page speed** for public and franchise sites, resulting in improved rankings and faster UX.
- Collaborated with product owners and QA teams using **Jira and SharePoint**, delivering new releases on a bi-weekly cadence.

Accountsware LTD - Mar 2019 – Aug 2019

Role	Senior Software Engineer
Tech Stack:	ASP.NET Core, Angular 8, Entity Framework, RabbitMQ, CQRS, MSSQL, SQL, PostgreSQL, Semantic UI

- Developed and maintained modules for an **Online Accounting ERP System** serving SMB clients with inventory, billing, and payroll features.
- Implemented a **microservices architecture** with CQRS pattern and RabbitMQ for asynchronous processing and service decoupling.
- Delivered high-availability features across **Vendor Portal, Customer Portal, and Asset Library**, improving operational control.
- Created RESTful APIs and reusable UI components with Angular 8, Semantic UI, and Bootstrap for faster feature delivery.
- Optimized data layer performance and reporting through indexed queries in PostgreSQL and MSSQL environments.
- Collaborated with the QA and product teams in **Agile sprints**, ensuring delivery of quality features on schedule.

NetSole Technologies - Aug 2018 – Jan 2019

Role	Junior Software Engineer
Tech Stack:	ASP.NET MVC5, ADO.NET, SQL Server, MSSQL, Entity Framework, Razor, jQuery, Bootstrap, HTML/CSS, Windows, Linux

- Developed modules for an in-house **ERP system**, including **Warehouse & Inventory**, **Helpdesk Ticketing**, and **HRM** applications.
- Designed and deployed web interfaces using **Razor Views**, Bootstrap, and jQuery for responsive cross-device access.
- Built and maintained **customer, vendor, and employee portals**, streamlining access and internal workflows.
- Wrote SQL queries, stored procedures, and triggers in SQL Server to support robust data operations and reporting.
- Assisted in system debugging and enhancement, gaining hands-on experience with enterprise codebases and documentation.
- Participated in early Agile-style development cycles and cross-team code reviews.