

MUHAMMAD ZAMAN

SENIOR SOFTWARE ENGINEER / FULL - STACK DEVELOPER

+92-323-3279110 | m.zamann1@outlook.com | Karachi, Sindh, Pakistan | <https://linkedin.com/in/mzamaann>

PROFESSIONAL OVERVIEW

Highly skilled Full-Stack Developer with over 4 years of experience in developing scalable and robust applications using .NET Core and React. Proficient in designing APIs, database architectures, and implementing modern web technologies. Adept at Agile methodologies, and ensuring code quality through rigorous testing and reviews. Skilled in collaborating with cross-functional teams to deliver high- impact software solutions.

WORK EXPERIENCE

Full-Stack Developer @ Astera Software

Dec 2023 - Present

- Developed **React components** and **backend APIs** utilizing **.NET 6/8**, ensuring scalable and high-performance application architecture.
- Contributed to the migration of a legacy **WinForms application to WPF**, resulting in a **60% increase in customer adoption** through enhanced user experience and functionality.
- Implemented **performance optimization strategies**, improving system speed and response time by **25%** to enhance user experience and system efficiency.

Senior Software Engineer (.NET) @ ZEPCOM

Nov 2022 - Dec 2023

- Delivered **full-stack solutions** using **Blazor Web Assembly** and **.NET 6**, ensuring seamless integration between front-end and back-end components for high-performance web applications.
- Managed **deployments** on **IIS** and **Azure**, implementing automated **CI/CD pipelines** to streamline code delivery, reduce errors, and accelerate release cycles.
- Developed dynamic, **data-driven reports** using **Telerik Reporting** tools, providing actionable insights and enhancing decision-making processes.
- Improved **system scalability** by designing and implementing **efficient data caching mechanisms**, optimizing resource usage, and enhancing overall system performance.

Senior/Software Engineer @ Techlogix Pakistan

Nov 20 – Nov 2022











- Developed and maintained both **monolithic** and **microservice-based** and **micro-frontend applications** using **React** and **.NET 6**, ensuring scalable, maintainable, and high-performance solutions.
- Implemented **Key cloak** for centralized **user management**, incorporated **JWT** for secure API authentication, and enabled **Multi-Factor Authentication (MFA)**, enhancing security and scalability for both the front-end and back-end.
- Led the development of **banking software**, integrating it with **Oracle Database** to ensure seamless data handling and improved system performance.
- Optimized **database queries** and implemented performance tuning techniques, reducing query execution times by **30%, improving application responsiveness.**

- Designed and applied backend logic and accounting ledgers using C#, ensuring efficient and accurate financial operations.
- Developed comprehensive reporting systems utilizing RDLC for dynamic reports and jQuery data tables for interactive data management.
- Improved system reliability by integrating detailed logging and robust error-handling mechanisms to ensure smooth operations and quick issue resolution.
- Utilized the AdminLTE Admin Panel for the front-end, with extensive use of jQuery for dynamic elements and Entity Framework (EF) Core for data access, enhancing performance and maintainability.

CORE SKILLS

- **Programming Languages:** Proficient in C#, JavaScript, and TypeScript.
- **Frontend Technologies:** Expertise in React, Redux, Tailwind CSS, HTML, CSS, jQuery, Blazor Web Assembly.
- **Backend Technologies:** Proficient in ASP.NET Core and ASP.NET Core Web Api.
- **Database Technologies:** Proficient in SQL Server, Oracle DB, Entity Framework Core and T-SQL.
- **Architecture and Design Patterns:** Familiar with ASP.NET Core MVC, Clean Architecture, CQRS, MediatR, Microservices, Micro frontends.
- **DevOps Tools:** Proficient in Azure DevOps.
- **Testing & QA Tools:** Adept at using Jest, React Testing Library, NUnit/xUnit, SonarQube, and Postman for testing and quality assurance.
- **Development and Build Tools:** VS Code, JetBrains Rider, Visual Studio, Vite, Webpack.
- **Additional Expertise:** Strong background in Web Development, API Development, Git, REST APIs, jQuery UI, and Agile Development practices.

SOFT SKILLS

 Communication Skills |  Team Collaboration |  Problem-Solving |  Leadership
 Time Management |  Adaptability |  Critical Thinking |  Conflict Resolution
 Presentation Skills |  Attention to Detail

EDUCATION

Bachelor of Science in Computer Science (BSCS)

University of Karachi | Feb 2016 – Feb 2020

CGPA: 3.3

KEY PROJECTS

Astera HRMS | Oct 2024 - Present

- Led the development of an HRMS from scratch, handling all aspects including on-boarding process, and employee profile of the project independently as a Full Stack Developer.
- Collaborated with stakeholders and designers for requirement gathering and provided suggestions for system improvements.
- Developed the frontend using Vite, React, TypeScript, Ant Design, Tailwind CSS, Redux, and Axios for a seamless user experience.
- Designed and applied Clean Architecture with CQRS and Mediator pattern for API development in the backend, utilizing Entity Framework Core for data access.
- Incorporated Microsoft OAuth for authentication and authorization across both frontend and backend.
- Applied Repository Pattern with Unit of Work and utilized the Result Pattern in the service layer to ensure scalable and maintainable code.

VFW Accounting System | May 2023 – Nov 2023

- Built scalable Web APIs with comprehensive authentication, including two-factor authentication using Microsoft Auth and Duo Security.
- Designed and implemented user management system, including role-based access control (RBAC) for backend and frontend authorization.
- Collaborated with the design team to develop the user interface (UI) and utilized jQuery for dynamic content manipulation and interactions.
- Conducted code reviews to ensure adherence to clean coding principles.

Traffk Agent Portal and Hero Life Insurance | Dec 2022 – Apr 2023

- Designed and implemented dynamic, user-centric interfaces using Blazor Web Assembly incorporated with Telerik Controls, ensuring responsiveness and enhanced usability.
- Built a robust document management Web Api leveraging .NET 6 and adhering to Clean Architecture principles, facilitating scalability and maintainability.
- Partnered closely with stakeholders to gather, analyze, and refine requirements, leading to improved functionality and an optimized user experience.

Atlas Core Software Development | Dec 2021 – Jul 2022

- Architected and developed the React application from scratch, leveraging Micro Frontend techniques to modularize and scale the project efficiently.
- Developed and integrated robust backend system using the CQRS pattern with MediatR, ensuring high performance and scalability.
- Developed and executed unit tests for both frontend and backend using Jest and NUnit, achieving 95% code coverage and maintaining high code quality.
- Automated CI/CD workflows to streamline deployment processes, significantly reducing manual intervention and deployment times.

UBL Service Augmentation | Nov 2020 – Dec 2021

- Enhanced core functionalities of banking software, including Inward clearing processes and rent management modules, to improve operational efficiency and accuracy.
- Designed and incorporated database solutions using Oracle Database, leveraging stored procedures, triggers, views, jobs and advanced SQL techniques to support seamless application performance.
- Automated recurring database tasks by developing custom scripts and optimizing workflows, resulting in a 20% reduction in operational workload and improved resource utilization.