

MUHAMMAD SHABIR

Senior Full-Stack Developer with over 10+ years of experience in developing high-performance Healthcare, e-commerce platforms, HR, SaaS applications, and CMS tools. Proficient in the **.NET ecosystem**, with extensive expertise in **ASP.NET Core**, **Entity Framework**, and **SQL Server**, as well as cloud development on **Azure** and **AWS**. Adept at building scalable, cloud-native applications, implementing **microservices** architecture, and automating deployments with **Docker** and **Kubernetes**. Extensive experience in Angular, Blazor, Razor and React.js for frontend development. Strong background in unit and integration testing with a focus on delivering robust, reliable solutions. Experienced in collaborating with cross-functional teams in Agile environments and committed to continuous learning and delivering value to clients.

Skills

- **Programming Languages:** C#, JavaScript, TypeScript, SQL, HTML, CSS, XML, T-SQL, Python, Rust
- **Backend Development:** .NET Core, ASP.NET MVC, ASP.NET Core, Web API, Microservices, RabbitMQ, Kafka
- **Databases & ORM:** MSSQL, PostgreSQL, MongoDB, Redis, EF Core, ADO.NET, TypeORM, Prisma, LinQ
- **Frontend Development:** Angular, React.js, NgRX, NgXS, RxJS, PrimeNG, SASS, MUI, Vue, Vuex, Tailwind
- CSS, Bootstrap, CSS3,
- **APIs & Data Communication:** RESTful APIs, gRPC, SignalR, GraphQL
- **AI & Automation:** GPT, Gemini, OpenAI, LangChain, CrewAI, N8N, VEO3, Custom AI Agents & Workflows
- **AI Solutions:** Chatbots, Agentic Chatbots, STT/TTS, NLP, RAG, Advance RAG, Fine-tuning via PEFT/Lora
- **Cloud Services & DevOps:**
 - **Azure:** App Services, Azure Functions, Azure Service Bus, Azure Event Hub
 - **AWS:** SQS, S3, API Gateway, Lambda, EC2, RDS, CDK, Secret Manager, SNS, EKS, IAM, Amazon Saga Maker
 - **DevOps & CI/CD:** Docker, Kubernetes, Terraform, Jenkins, GitHub Actions
- **Testing & Quality Assurance:** Cypress, Jest, Jasmine, NUnit, XUnit, Selenium
- **Software Development Practices:** Agile/Scrum, DDD, SOLID, CQRS, Event-Driven Architecture
- **Security & Authentication:** IdentityServer4, OAuth2, OpenID Connect
- **Other Technologies & Tools:** Jira, D3.js, WebGL, Socket.io, WebSockets, Linux

EXPERIENCE

Senior Fullstack Engineer

01/2022 ~

LawHQ

- Developed and maintained scalable C# .NET Core applications with a focus on performance and reliability for e-commerce and SaaS platforms.
- Delivered software solutions across HR, eCommerce, and Healthcare industries, leveraging C#, .NET Core, ASP.NET Core, Azure, SQL, PostgreSQL, Entity Framework, ADO.NET, LinQ, Blazor, Angular, and TypeScript within Microservices and Micro-Frontend architectures.
- Spearheaded the design and architecture of a large-scale HR management system, utilizing .NET Core and Azure DevOps, streamlining platform-wide operations.
- Engineered a fully automated payroll system with T-SQL, cutting manual payroll efforts by 90% while improving accuracy.
- Designed and implemented a high-performance database optimization strategy, reducing query execution time from 4 minutes 30 seconds to 30 seconds, significantly enhancing system responsiveness.
- Developed a centralized document repository using SQL Server and Entity Framework, ensuring secure storage and seamless retrieval of essential documents.
- Overhauled the frontend by migrating legacy components to Angular, resulting in a 50% boost in user engagement, incorporating RxJS, NgRX, Angular Material, and SCSS.

- Integrated Angular applications with RESTful APIs and gRPC, enabling high-speed real-time data exchanges across services.
- Orchestrated containerized microservices deployments using Docker and Kubernetes, enhancing system reliability and scalability.
- Designed and implemented an interactive employee benefits portal using Blazor and Razor, improving accessibility to company perks and resources.
- Created a real-time analytics dashboard with Dapper, LINQ, and Chart.js, empowering business leaders with data-driven insights.
- Strengthened test coverage by implementing unit and integration testing with xUnit, increasing overall test effectiveness to 80%+ SonarQube coverage.
- Secured distributed authentication and authorization by integrating IdentityServer4, OAuth2, and OpenID Connect, ensuring data privacy and compliance.
- Automated routine reporting with Azure Functions and REST APIs, reducing manual reporting time by 30 hours weekly.
- Optimized API performance by transitioning from REST to gRPC, achieving a 30% reduction in response times and improving modular scalability.
- Diagnosed and resolved persistent system errors by enhancing error logging and monitoring with Sentry, significantly reducing downtime.
- Created a custom Swagger gRPC route detector, streamlining API documentation for internal teams and improving developer productivity.
- Ensured HIPAA and GDPR compliance by implementing end-to-end encryption for secure interactions with third-party insurance providers.
- Developed a chat-integrated onboarding feature using Angular and WebSocket, cutting help desk inquiries by 50% and enhancing user experience.
- Conducted rigorous code reviews ahead of development sprints, leading to 80%+ improvement in system health and maintainability.
- Collaborated with cross-functional teams, participating in code reviews, mentoring junior developers, and ensuring adherence to best practices and coding standards.

Senior SoftwareEngineer

02/2019 ~ 12/2021

Ibex Pakistan

- Architected and developed an SAAS platform using .NET Core, T-SQL, and EF Core, Amazon RDS(PostgreSQL/MySQL/SQL Server), reducing inter-departmental paperwork by 80%.
- Developed high-performance financial services using C#, .NET, MSSQL and Entity Framework, handling real-time transaction processing and maintaining security compliance.
- Created and managed 5 visually compelling and highly functional frontends using Angular, Yeoman, Grunt, Bower and Angular UI for component model.
- Optimized components for maximum performance across a vast array of web-capable devices and browsers.
- Created TypeScript reusable components and frontend libraries for future use to streamline development processes.
- Developed a custom Swagger gRPC route detector, simplifying API documentation and communication for internal teams.
- Ensured application security by implementing authentication and authorization mechanisms, such as JWT and OAuth
- Leveraged RxJS for handling asynchronous data flows and integrated state management using NgRx, Redux, improving the performance and scalability of the front-end application.
- Optimized database schemas and wrote advanced queries in SQL Server for handling large-scale data transactions, ensuring high availability and data integrity.
- Migrated the notification service to a real-time WebSocket-based solution, leveraging SignalR, resulting in a 60% improvement in user experience and complaint reduction.
- Employed Test-Driven Development (TDD) to establish comprehensive Unit Test Cases, bolstering code reliability and leveraging testing frameworks such as Jest, xUnit, NUnit and Playwright.
- Resolved 100+ software issues, enhancing system stability and performance through meticulous debugging and problem solving and executed CI/CD and DevOps tasks for 10+ components with Azure, streamlining deployment pipelines and ensuring system reliability.
- Integrated user-facing elements developed by frontend developers with server-side logic, fostering cohesive and responsive application development.

- Collaborated with cross-functional teams to define, design and ship new features.
- Designed and implemented low-latency, high-availability, and high-performance applications, enhancing scalability and user satisfaction.

Full Stack Engineer

04/2016 ~ 11/2018

Asiansol Pakistan

- Developed and maintained 10+ backend systems, RESTful APIs and microservices using .NET Framework, ADO.NET, LINQ by leveraging SQL and NoSQL databases to ensure efficient and secure data storage and retrieval.
- Develop, test, and debug Frontend components using Angular, Angular MUI, Jasmine for both customer-facing and internal use
- Worked with SQL Server for data migration and optimization tasks, enhancing the performance of the backend infrastructure by improving indexing and query performance
- Worked with SQL Server for data migration and optimization tasks, enhancing the performance of the backend infrastructure by improving indexing and query performance.
- Implemented microservices architecture, breaking down monolithic applications to microservices, leveraging RESTful APIs, ensuring better scalability and faster release cycles for clients in their industry
- Designed a robust role-based access control (RBAC) system to manage different user roles (admins, managers, employees) and their permissions within the application.
- Contributed to the development of small- to medium-sized e-commerce websites using ASP.NET MVC and C#, helping clients improve their online presence and sales workflows.
- Developed and maintained product catalogs, shopping carts, and payment gateway integrations, ensuring a smooth shopping experience for end users.
- Integrated TypeScript into frontend development, improving code maintainability, and catching errors early during the development process.
- Implemented caching strategies using Redis to store frequently accessed data, further improving the responsiveness of time tracking and reporting features
- Engaged with clients to gather business requirements and translated them into technical solutions, delivering scalable and efficient products tailored to client needs.

Fullstack Engineer

03/2017 – 12/2018 ~

Authbytes

- Developed and maintained web applications using PHP and Laravel for business and enterprise solutions.
- Built RESTful APIs and backend services with a focus on scalability and performance.
- Worked on Android application development and integrated mobile apps with backend APIs.
- Developed responsive frontend interfaces and collaborated closely with UI/UX teams.
- Integrated third-party services, authentication systems, and payment gateways.
- Optimized database queries and improved overall application performance and reliability.
- Collaborated with cross-functional teams to deliver high-quality software solutions in Agile environments.

Fullstack Engineer

03/2018 – 09/2019 ~

Zech Technologies

- Developed scalable full-stack applications using ASP.NET Core and Angular 8.
- Worked on blockchain and cryptography-based solutions, focusing on secure and distributed systems.

- Built and maintained RESTful APIs and backend services for enterprise applications.
- Integrated Elasticsearch for advanced search functionality and performance optimization.
- Containerized applications using Docker to streamline deployments and improve scalability.
- Collaborated with cross-functional teams in Agile environments to deliver high-quality software solutions.
- Optimized application performance, security, and database operations across multiple projects.

Web Developer

06/2013 ~ 03/2016

Frelancer.com

- Designed, developed, and maintained 25+ custom websites and web applications for clients across industries, ensuring optimized performance, security, and responsiveness.
- Collaborated with clients to gather requirements, create wireframes, and deliver polished front-end interfaces using Angular.js, and responsive CSS frameworks like Bootstrap.
- Developed modules for personal management systems, including task tracking, user profile management, and reporting features, using ASP.NET, Web Forms and MVC patterns.
- Developed e-commerce platforms with full shopping cart and payment gateway integrations using Stripe, PayPal, and other third-party services.
- Implemented content management systems (CMS) for clients using WordPress, allowing non-technical users to easily manage and update their websites.
- Utilized cloud platforms such as Azure and GCP for deployment and scalable hosting solutions, ensuring site reliability and high availability.
- Wrote unit and end-to-end tests with Jest, Cypress, NUnit to ensure the quality and reliability of all projects.
- Provided ongoing maintenance and support, troubleshooting issues, applying security patches, and optimizing website performance.

EDUCATION

Virtual University of Pakistan (UB)

Bachelor's Degree of Computer Science

2009 - 2013