

# MD. AFZAL HOSSAIN

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## PROFESSIONAL SUMMARY

Results-driven Senior Developer with 14+ years of experience designing and implementing scalable, high-performance enterprise applications. Proven expertise in leading technical teams, defining architectural standards, and delivering innovative solutions for complex business requirements. Strong background in microservices architecture, cloud-native design, and modern development practices. Skilled at bridging business goals with technical solutions while mentoring development teams and driving technology adoption.

## CORE COMPETENCIES

- Expert in AI tools like Claude, OpenClaw etc
- Solution & Application Architecture
- Microservices & Cloud-Native Design
- Technical Leadership & Team Management
- Architecture Standards & Best Practices
- Performance Optimization & Scalability
- System Integration & API Design
- Database Design & Optimization
- Docker & Kubernetes Orchestration
- Event-Driven Architecture (RabbitMQ, Redis)
- CI/CD Pipeline Design & Implementation
- Risk Assessment & Mitigation

## PROFESSIONAL HIGHLIGHTS

- 14+ years architecting and implementing enterprise-scale applications across diverse industries
- Proven track record of leading technical teams and mentoring engineers on architecture and best practices
- Expert in microservices architecture, RESTful APIs, event-driven design, and cloud-native solutions
- Strong experience with containerization (Docker, Kubernetes) and CI/CD pipeline implementation
- Demonstrated ability to drive technology evaluation, selection, and adoption aligned with business goals
- Excellent problem-solving skills with focus on scalability, performance, security, and reliability
- Strong communication skills with experience influencing technical direction and collaborating with stakeholders
- Passionate about staying current with industry trends and emerging technologies to drive innovation

## TECHNICAL EXPERTISE

Backend & Architecture	Databases	DevOps & Cloud	Frontend & Tools
.NET Core, C#, ASP.NET, Entity Framework, RESTful APIs, GraphQL, Web API, SignalR, gRPC, RabbitMQ, Event-Driven Architecture	SQL Server, Oracle 11g, PostgreSQL, MySQL, MongoDB (NoSQL), Redis (Caching), Database Partitioning, Sharding & Replication	Docker, Kubernetes, AWS (S3, Cognito, EC2, Lambda), CI/CD Pipelines, IIS, Nginx Configuration, Linux Server Management	Angular, Vue.js, TypeScript, AngularJS, Kendo UI, JavaScript, jQuery, CSS3, Bootstrap, Agile & Scrum

## PROFESSIONAL EXPERIENCE

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### Senior Software Engineer / Technical Lead

*WebAlive, Australia (Remote) • May 2022 – Present*

- Led architectural design and implementation of microservices-based solutions using .NET Core, RabbitMQ, and Kubernetes.
- Architected scalable CDP (Customer Data Platform) with advanced query/filtering capabilities, handling high-volume data ingestion with any valid JSON format
- Designed and implemented cloud-native applications with AWS integration (S3, Cognito, Lambda), achieving 99.9% uptime and optimal cost efficiency
- Established architecture standards, coding guidelines, and best practices across development teams, resulting in 40% reduction in technical debt
- Led technical design reviews and approval processes, ensuring compliance with architectural principles and security standards
- Mentored senior engineers and developers on design patterns, microservices architecture, and modern development practices
- Managed staging servers and production deployments using Docker and Kubernetes, implementing automated CI/CD pipelines
- Collaborated with product and engineering teams to align technical solutions with business objectives, driving innovation with emerging technologies

### Analyst Sr. Software Engineer

*MultiTech System Limited, Dhaka • August 2016 – April 2022*

- Designed and developed comprehensive ERP system architecture for Multi-fabs Limited (15,000+ employees), managing HR, Payroll, Inventory, Production, and Financial modules
- Architected database solutions using Oracle 11g with advanced optimization techniques, partitioning, and indexing strategies
- Configured and maintained application host servers using IIS, implementing load balancing and high-availability solutions
- Developed technical documentation including flowcharts, architecture diagrams, and system design documents
- Implemented real-time communication features using SignalR2 and Web API for seamless data synchronization
- Participated in daily scrum meetings, providing technical guidance and architecture decisions for development teams

### Software Engineer

*TechnoVista Limited, Dhaka • August 2012 – July 2016*

- Designed and developed scalable solutions for enterprise clients, focusing on requirement analysis.
- Led system design and technical architecture for Mohammadi Group ERP (10,000+ employees), implementing scalable multi-tier architecture
- Worked with cutting-edge technologies including Angular, ASP.NET MVC, and modern JavaScript frameworks
- Created comprehensive training manuals and technical documentation for end-users.
- Participated in agile development processes, contributing to project scoping, task estimation, and sprint planning

## KEY ARCHITECTURAL PROJECTS

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### Umerang (Customer Data Platform) - Enterprise Data Integration System (Google Analytics)

**Role:** Solution Architect & Lead Developer | **Tech:** .NET Core, RabbitMQ, MSSQL, Web API

- Architected flexible data ingestion platform accepting any valid JSON format with schema-less design
- Targeting Google Analytics as Business Competitor
- Designed advanced query/filter API endpoints with support for complex data retrieval patterns
- Implemented high-performance event-driven architecture using RabbitMQ for real-time data processing

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### Clubeez – Workflow and Campaign Automation System

**Role:** Technical Lead & Solution Architect | **Tech:** .NET Core, RabbitMQ, MSSQL, Web API, SignalR2, Vue.js

- Architected microservices-based platform with event-driven architecture for club management, digital passes (Google/Apple Wallet), vouchers, email campaigns, newsletter, workflow automation and form builder to collect data from external application
- Designed scalable workflow automation engine and form builder system for data collection from external applications
- Implemented high-performance messaging infrastructure using RabbitMQ for asynchronous processing and real-time notifications

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### Chamera - AI-Powered School Photography Platform

**Role:** Technical Lead & Solution Architect | **Tech:** .NET Core, RabbitMQ, AWS, Angular, Web API, SignalR2

- Designed cloud-native architecture integrating AI/ML capabilities for automated image processing and recognition
- Architected digital wallet integration system for Google and Apple platforms with secure authentication mechanisms
- Implemented AWS S3 integration for scalable media storage and CDN distribution

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### E-Commerce Data Migration & Integration Plugins

**Role:** Technical Lead & Architect | **Tech:** .NET Core (MVC), AWS S3, SignalR-2, MSSQL, Web API

- Architected plugin framework for seamless data migration between e-commerce platforms (Shopify, WooCommerce, BigCommerce)
- Designed membership management system with subscription lifecycle handling (purchase, renewal, upgrade, cancellation)
- Implemented webhook management system and automated FTP upload functionality for B2B integrations

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## EDUCATION

### B.Sc. in Computer Science & Engineering

*International University of Business Agriculture & Technology*

**GPA:** 3.59/4.00 • **Year:** 2016