

WAQAS AHMAD

Senior Software Engineer & Technical Lead | Software Engineering Consultant

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PROFESSIONAL SUMMARY

Senior Software Engineer & Technical Lead with **17+ years** of experience architecting enterprise-scale solutions for Fortune 500 companies and leading Malaysian technology firms. Specializes in **.NET Core, ASP.NET, C#, Microservices Architecture, RESTful API Development, Azure Cloud**, and CI/CD automation. Proven track record delivering mission-critical systems processing **2.5M+ data points daily**, achieving **65% performance improvements**, and leading teams managing **billions in operational costs**. Extensive experience with Malaysian companies including **AirAsia Tech, Datacom Systems, Syntronic Malaysia, and Iconic Control**. Mentored **50+ developers** across global teams. **Available for onsite and remote positions in Malaysia** with flexible work arrangements. Expertise in Agile/Scrum methodologies, technical leadership, and full-stack development.

Keywords: Senior Software Engineer, Technical Lead, .NET Core, C#, ASP.NET, Microservices, Azure Cloud, SQL Server, Angular, Vue.js, RESTful API, DevOps, CI/CD, Agile, Scrum, Entity Framework, Technical Leadership, Malaysia, Kuala Lumpur, Selangor, Onsite, Remote, Full Stack Developer, Software Architecture, Enterprise Solutions, Software Engineering, Backend Development, Frontend Development, API Development, Cloud Architecture, System Integration

PROFESSIONAL EXPERIENCE

Lead Software Engineer & Technical Consultant / Independent Consultant

January 2022 - Present

Remote/Global (Malaysia-based)

- Delivered enterprise solutions to Fortune 500 clients across 5+ countries, specializing in Azure cloud architecture and .NET Core microservices for Malaysian and international markets
- Architected Azure cloud solutions reducing infrastructure costs by **40%** while achieving **65% performance improvements** for mission-critical systems
- Built complete applications from database design to user interface, ensuring seamless integration and optimal user experience for Malaysian and Southeast Asian markets
- Delivered projects **25% faster** than industry standards with **99.9% uptime** for mission-critical petroleum operations managing billions in maintenance costs
- Pioneered remote-first development practices across 5+ time zones, managing distributed teams for Fortune 500 clients with **99.9% delivery success rate**

Technical Lead / AirAsia Tech

June 2021 - August 2022 (1 yr 3 mos)

Kuala Lumpur, Malaysia

- Led development of AirAsia ID90 Portal, a mission-critical employee benefits platform enabling 90% discounted flights within 60-minute departure window, processing **3,000+ bookings daily** with **99.9% uptime**
- Architected .NET Core microservices with Angular frontend, Azure App Services, and Azure SQL Database, serving **millions of employees** across Southeast Asia
- Implemented real-time flight monitoring, automated discount application, and comprehensive refund management system with **95% automation rate**, reducing manual processing significantly
- Standardized CI/CD pipelines with Azure DevOps, reducing delivery time by **40-50%** while ensuring code quality and

zero-downtime deployments

- Optimized Entity Framework + LINQ queries, improving database performance by **35%** and reducing query execution time for real-time flight operations
- Led cross-functional team of **8+ engineers** developing enterprise-grade applications, conducting code reviews and knowledge transfer sessions

Technical Lead / Datacom Systems Sdn Bhd

February 2020 - January 2021 (1 yr)

Kuala Lumpur, Malaysia

- Developed microservices architecture with API Gateway integrating **7+ third-party systems** (SharePoint, SAP, Cherwell, Success Factor, Datalake) under unified Azure AD authentication
- Designed Azure Service Fabric cloud infrastructure with SQL Server, implemented CI/CD pipelines with ARM templates for multi-tenant deployments across DEV/QA/UAT/PROD environments
- Optimized n-tier application architecture with Entity Framework best practices, improving query performance and system responsiveness by **30%**
- Integrated enterprise systems (SAP, Cherwell HR, Application Insights) with custom APIs, enabling seamless data flow across business operations
- Implemented Agile/Scrum practices with sprint planning, backlog management, and daily standups, ensuring on-time delivery of all project milestones

Technical Lead / Syntronic Malaysia Sdn Bhd

July 2019 - January 2020 (7 mos)

Kuala Lumpur, Malaysia

- Developed ASP.NET Core REST APIs with Swagger documentation and SignalR for real-time bidirectional communication in IoT monitoring systems
- Successfully revamped major module (backend, frontend, database) in under **2 months**, delivering Angular SPA with responsive design and enhanced UX
- Implemented CI/CD automation with Azure DevOps, Docker containerization, and automated unit testing, reducing manual testing time by **60%**
- Utilized Cosmos DB, Azure Functions, and Azure Storage for scalable solutions
- Active participation in Agile ceremonies and comprehensive code reviews

Technical Lead | Iconic Control Sdn Bhd, Petaling Jaya, Malaysia (May 2018 - Jul 2019): Architected 7+ smart city solutions from scratch (Transportation, Law Enforcement, Taxation, Land Planning, Project Monitoring) achieving 50-60% revenue growth. Implemented OCR-based enforcement systems, GIS mapping with Supermap, and IoT sensor integration for real-time monitoring.

Technical Lead / Senior Software Engineer | Squad Cell, Lahore, Pakistan (Nov 2012 - Mar 2018, Promoted 2015): Architected cloud-hosted e-commerce platform with .NET MVC and Angular. Developed data analytics framework and notification microservices. Standardized Agile/Scrum practices and DevOps automation.

Game Developer | GeniTeam Solutions, Malaysia (Jun 2011 - Oct 2012): Developed company's first in-house 2D physics engine. Created Marine Defender (ranked #21 Arcade & Action) generating \$2M revenue in first 2 months.

Software Engineer | DSOL (Kiics), Malaysia (Jan 2008 - Jun 2011): Developed university admission management system reducing operational costs by 30%. Built multi-threaded mass email client. Awarded Best Programmer at KICS Annual Ceremony.

TECHNICAL SKILLS

Programming Languages #CSharp #DotNetCore #ASPNETCore #JavaScript #TypeScript #SQL #LINQ #HTML5 #CSS3	Frontend Frameworks #Angular #VueJS #React #Bootstrap #jQuery #PrimeNG #ChartJS #Leaflet	Backend & APIs #RESTfulAPIs #GraphQL #SignalR #Swagger #OpenAPI #EntityFramework #Dapper #AutoMapper
Cloud & Azure #AzureAppServices #AzureFunctions #AzureServiceFabric #AzureCosmosDB #AzureKeyVault #AzureStorage #AzureAD	Databases #SQLServer #Redis #CosmosDB #EntityFrameworkCore #LINQ2SQL #DatabaseOptimization	DevOps & CI/CD #AzureDevOps #Docker #CICD #ARMTemplates #GitHubActions #Nexus #AutomatedTesting
Architecture & Design #Microservices #APIGateway #SOLIDPrinciples #MVVM #MVC #DesignPatterns #SystemIntegration	Methodologies #Agile #Scrum #TDD #CodeReview #TechnicalLeadership #TeamMentoring #ProjectManagement	


EDUCATION

Bachelor of Computer System Engineering (Honors) | University of Engineering and Technology 2006 - 2013
Lahore, Pakistan

Completed a comprehensive 4-year honors program in Computer System Engineering, specializing in software development and system architecture. Laid the foundation for expertise in enterprise-level applications, database design, and scalable system solutions.

AWARDS & ACHIEVEMENTS

- National Speed Programming Champion** 2010
ACM All Pakistan Speed Programming Competition
Secured first position in the most prestigious programming competition in Pakistan, competing against **500+ top-tier developers** from leading universities nationwide. Demonstrated exceptional problem-solving skills and algorithmic thinking.
- HR IT Expert Award** 2013
Guinness World Records Pakistan - Punjab Youth Festival
Recognized as the premier IT expert for orchestrating the technical infrastructure of Pakistan's largest youth festival, managing **150,000+ participants**. Pioneered innovative solutions that enabled seamless event coordination and earned recognition in Guinness World Records.

 **View Full Interactive Resume:** <https://waqasahmad-portfolio.web.app/#resume> - Explore detailed project portfolios, architecture diagrams, performance metrics, and comprehensive technical expertise.