SYED SAJJAD ALAM

SOFTWARE ARCHITECT AND DEVELOPER

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PROFESSIONAL SUMMARY AND CAREER OBJECTIVE

With over 20 years of proven experience in software development, systems architecture, and semiconductor development and research, backed by six Microsoft Certifications and a B.S. (Honors) in Computer Science, I have successfully delivered 200+ enterprise-grade portals, desktop applications, and cloud-based solutions.

Today, my passion lies in harnessing the power of Artificial Intelligence, cloud computing, and intelligent automation to design and deliver scalable, data-driven solutions that accelerate innovation, enhance operational efficiency, and drive sustainable business growth across the software and semiconductor industries.

EXPERIENCE

Cloud | DevOps & Development Expert

A versatile cloud professional with end-to-end expertise across cloud-native development, DevOps automation, scalable architectures, and AI-driven solutions. Skilled in building and deploying modern applications on AWS, Azure, and GCP, I bridge the gap between development and operations with CI/CD pipelines, containerization (Docker, Kubernetes), Infrastructure as Code (Terraform, Ansible), and MLOps practices. From designing resilient microservices to integrating AI/ML models, serverless computing, and edge deployments, I deliver 360° cloud solutions that accelerate innovation, optimize performance, and enable businesses to scale with confidence.

Python + AI

I deliver full-stack Python and AI solutions — from data pipelines and feature engineering to model research, production deployment, monitoring, and scalable MLOps — covering every discipline from NLP and computer vision to reinforcement learning and generative systems.

Generative AI	Prompt Engineering (LoRA, RAG)
Large Language Models (LLMs)	Computer Vision (YOLOv8, SAM)
MLOps & Model Deployment	Transformer Architectures
Explainable AI (XAI)	

Business Processes

Oracle NetSuite, SAP and Microsoft Dynamics are line of enterprise resource planning (ERP) and customer relationship management (CRM) software applications.

Cloud Implementation and integration
Dynamics 365
NetSuite
SAP

Technical Skills

Integrated Development Environments
Visual Studio 2022, Eclipse, Xcode, Qt Creator, PyCharm, VS Code, JupyterLab, Google Colab

Programming Languages & Scripting:
Python, C#, C++, Visual Basic, JavaScript (ES6+), TypeScript, Java, Swift, XML, HTML5, CSS3, SQL, PowerShell, Bash, Azure CLI

Frameworks & Libraries:
.NET 8/10, ASP.NET Core, Entity Framework Core, WPF, WinForms, Win32 API, Boost, Qt, WordPress, Bootstrap, AngularJS, React, Flask, Django, FastAPI, TensorFlow, PyTorch, scikit-learn, OpenCV, MediaPipe, ONNX Runtime

Machine Learning & Generative AI:
OpenAI GPT (3.5–4–5), LangChain, LlamaIndex, Hugging Face Transformers, Diffusers, AutoGen, Stability AI (Stable Diffusion), OpenCV AI Kit, Whisper, DeepFace, PyTorch Lightning, MLflow, TensorBoard, Keras, NumPy, Pandas, Matplotlib, Seaborn

Data & Cloud Platforms:
Microsoft Azure (AI Studio, ML Studio, Functions, Cognitive Services), AWS (SageMaker, Lambda, EC2, S3), Google Cloud AI, Azure SQL, SQL Server 2022 Enterprise, MySQL, PostgreSQL, Oracle, Microsoft Access

Project Management & Operations:
Microsoft Project, Azure DevOps, Git, GitHub, Jira, Confluence, Trello, Microsoft 365 Suite, Dynamics 365, SharePoint, Visio

Other Technical Proficiencies:
RESTful API Development, JSON/XML Integration, WebSocket Communication, OpenGL/DirectX Rendering, Docker, CI/CD Pipelines, Unit Testing (pytest, NUnit), Agile/Scrum Methodologies

CERTIFICATION

MCSD – Microsoft Certified Solution Developer

MCP 070-100: Analyzing Requirements and Defining Solution Architecture.

MCP 070-029: Designing and Implementing Database with Microsoft SQL Server.

MCP 070-175: Designing and Implementing Distributed Application

MCP 070-176: Desktop Application Development with Microsoft Visual Basic

EMPLOYERS

2003 - 2005 – Ministry of IT and Telecom (eGovernment), Government of Pakistan

2005 - 2009 – Punjab Examination Commission, Lahore

2009 - 2013 Provincial Disaster Management Authority, Lahore

2013 to date – Independent Consultant

EDUCATION

Bachelor of Science (Honors) in Computer Science
Sep – 2000 to Oct - 2004
PIMSAT University, Pakistan
(Recognized by the Higher Education Commission (HEC) and accredited by the University Grants Commission (UGC))

Cross Platform Development

Skilled in leveraging Flutter, .NET MAUI, React Native, and Xamarin to deliver high-performance applications with a single codebase, ensuring faster deployment, reduced costs, and consistent user experiences across iOS, Android, and Windows.

➢ MAUI	MAUI
➢ Flutter	Flutter
➢ QT.IO	
➢ Python	

Desktop/Database Development

Desktop Development: Experienced in creating high-performance applications using Win32, WPF, UWP, .NET MAUI, and Qt, delivering scalable and user-friendly solutions across Windows, macOS, and Linux platforms.

➢ Universal Windows Platform	➢ Windows Workflow Foundation
➢ Windows Presentation Foundation	➢ Java Development
➢ WinForms Development	➢ QT Application Framework
➢ Win32 API	➢ Classic GDI
➢ Windows Communication Foundation	➢ DirectX, OpenGL

Web Development / SEO

My primary expertise in web development are as follows:

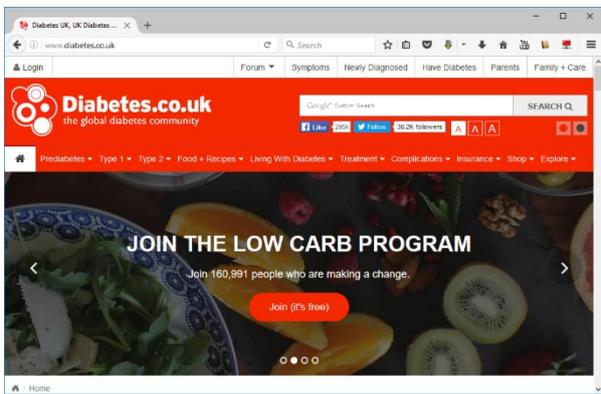|	
➢ ASP.Net MVC,	➢ WordPress Implementation
➢ HTML, JavaScript CSS, SAS, LESS	➢ WordPress Theme Development
➢ Entity Framework	➢ WooCommerce
➢ jQuery/Bootstrap	➢ W3 Total Cache
➢ AngularJS	➢ SEO
➢ SignalR	➢ Google Analytics

INVOLVEMENTS

- ➢ **Stack Overflow:** Active member to provide free technical help to other developers
- ➢ **GitHub:** Contributed to major open source projects including Firefox and Video LAN
- ➢ **asp.net:** Active member of ASP.NET community share tips and scripts
- ➢ **xamarin.com:** Deeply involved in Xamarin open source initiative
- ➢ **community.dynamics.com:** Share knowledge and case studies about implementation
- ➢ **answers.microsoft.com:** Actively provide feedback about Microsoft products & services

Web Specific Projects

I have worked for top brand and companies as an independent consultant and implemented CRM, DSS and TSS Systems. I integrated the system with their line of business applications in cloud as well as on premises systems.
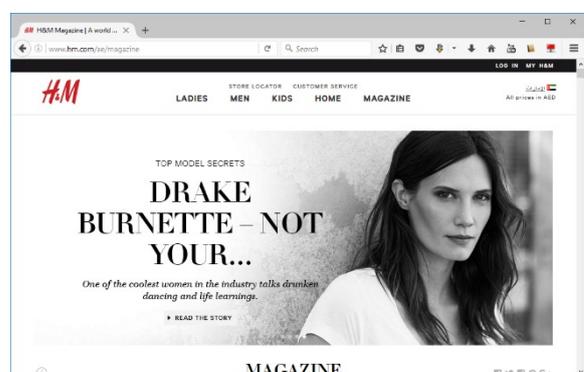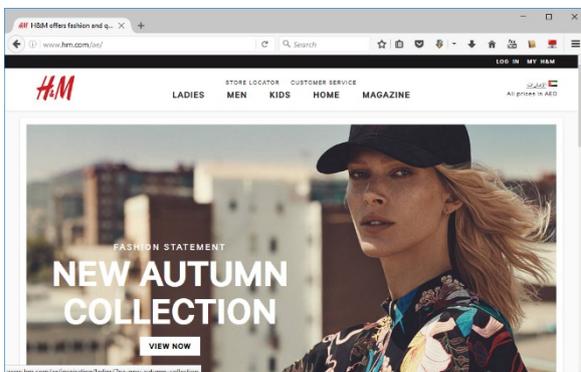
DIABETES.CO.UK   (MAY 2015 TO SEPTEMBER 2015)

Diabetes.co.uk is a health platform and patient-support network all to do with diabetes. Diabetes.co.uk has grown into the largest diabetes community in Europe and receives over 1 million users a month. I worked on this project as architect and developer. This site and associated online shop is completely developed in Microsoft ASP.NET and SQL Server 2012 with integration of ecommerce services and MS CRM 2015 implementation, Customization, Development and full integration with line of business applications.
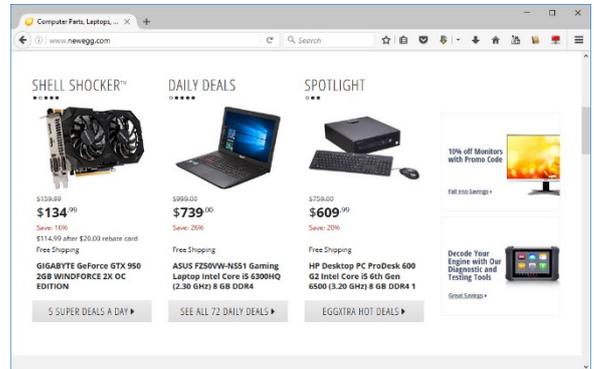

HM.COM   (AUGUST 2013 TO JANUARY 2014)

H&M operates 4,100 stores all around the world. It comprises six independent brands: H&M, COS, Monki, Weekday, Cheap Monday and & Other Stories. I worked as an independent consultant, implemented, migrate and integrate Microsoft SQL Servers in Azure and provide full technical support in their global operation through remote administration. Integrated and implemented cloud architecture with active directory federation services.
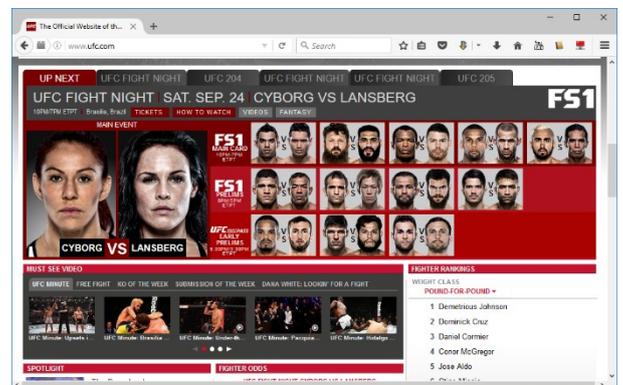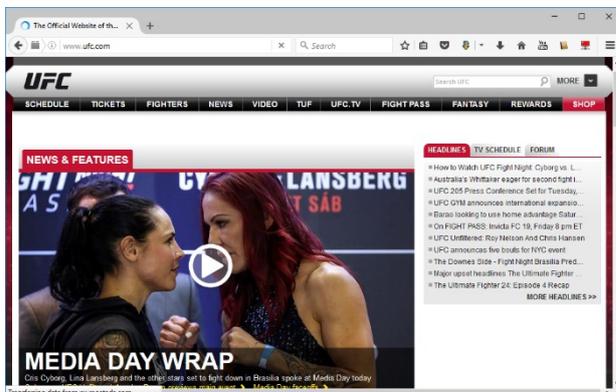
NEWEGG.COM (FEBRUARY 2014 TO AUGUST 2016)

Newegg Inc. is a leading online retailer committed to becoming the most loved and trusted marketplace on the web. With more than 10.5 million products and an award-winning website, Newegg proudly earns the loyalty of tech-enthusiasts and mainstream e-shoppers alike. In this project, I Lead design, implementation and operation of hybrid-cloud-based Microsoft SharePoint 2013, Yammer, and Office 365 platform, frameworks, processes, and policies by working with Microsoft product development teams and cloud hosting service providers

UFC.COM (2014)

Ufc.com is the fastest growing sports organization in the world, the Ultimate Fighting Championship. I worked for them as an independent consultant for the development and enhancement of online game management system. We also manage deployment and integration of Microsoft Technologies and Office 365. All services were delivered remotely supporting global operations.

Notable past project, responsibilities and tasks

Provincial Disaster Management Authority, Government of Punjab, Lahore (2009-2013)

The Provincial Disaster Management Authority (PDMA) is a comprehensive endeavor towards combating natural or man-induced disasters at the Provincial and Local level and securing lives and livelihoods of the affected people. As an I.T. Manager my responsibility was to manage

- Effective strategic IT planning and oversight of IT performance
- Oversee the development and maintenance of the IT strategic plan
- Approve vendors used by the organization and monitors their financial condition
- Approve and monitor major projects, IT budgets, priorities, standards, procedures, and overall IT performance
- Coordinate priorities between the IT department and user departments
- Review the adequacy and allocation of IT resources in terms of funding, personnel, equipment, and service levels

Punjab Examination Commission, Government of Punjab, Lahore (2005-2009)

Punjab Examination Commission is an autonomous body set up by the Government of the Punjab to administer assessment-only examinations for grade 5 and grade 8. Using latest IT infrastructure, OCR, OMR and ICR technologies. About 2 Million students enroll in annual examination from 35 districts of Punjab. As an I.T. Manager I am responsible of registration, Scanning, data recognition, result compilation and analysis of result using RASCH analysis.

Electronic Government Directorate, Government of Pakistan, Islamabad (2004-2005)

I worked at Electronic Government Directorate now merged in "National Information Technology Board". As a business/system analyst. I was posted at Quetta and my responsibility was to help establish the IT department in Government of Balochistan at Quetta. I provided all the technical as well as managerial and administrative help to establish I.T. Department in Balochistan civil secretariat in Quetta. Following are my key tasks.

- Strategic planning – to identify the department business needs
- Business model analysis – to define the department policies and integration approaches
- Process design – to standardize the department workflows
- Systems analysis – the interpretation of business rules and requirements for technical systems in Information technology