Emad Khan

Angular & .Net Core Guru

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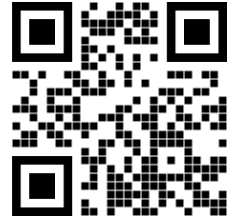
With a decade of experience, I am a dynamic force in crafting cutting-edge cloud solutions, adept in Azure and AWS. My impact spans diverse sectors like Construction, Real Estate, Transportation, Health, Ecommerce, and Services, highlighting my versatility. Proficient in Angular and .Net Core, my expertise transcends coding. A born leader, I excel in building and guiding high-performing teams to triumph. Renowned for top-tier project management skills, I consistently drive projects to achieve outstanding 10x results.

WORK EXPERIENCE

Confidential, Karachi - *Senior Backend Engineer*   *Aug 2023 - Current*
- Successfully optimized a heavy query, reducing its execution time from 82 seconds to under 1 second, despite handling a sizable dataset of 65,000 records.
- Spearheaded the design of high-performance backend systems with .Net Core and SQL, focusing on algorithm efficiency and robust data structures to enhance scalability and reliability.
- Expertly developed RESTful APIs using .Net Core, facilitating seamless data exchange and system interoperability.
- Managed and optimized SQL databases, significantly improving data retrieval speeds and maintaining integrity.
- Led the transition to a microservices architecture, boosting system modularity, maintenance ease, and scalability.
- Implemented and managed CI/CD pipelines, drastically reducing deployment times and error rates, thus accelerating the development process.

Star Marketing Pvt Ltd, Karachi - *Senior Full Stack Developer*   *Dec 2020 - May 2023*
- Overhauled company websites using NextJS and Angular, integrating with AWS and MongoDB, resulting in a modern, high-performance online presence.
- Innovatively developed a facial recognition-based attendance system and a bespoke mini sales system using Angular, ASP.Net Core, and NodeJS, streamlining operations and enhancing user engagement.

Nisilobaid, Remote (US) - **Senior Technical Consultant**   *Jan 2019 - Nov 2020*
- Drove strategic technology planning and implementation, using WordPress, ASP.Net MVC, SQL, and Angular to craft user-centric solutions, aligning technology with business goals.
- Enhanced productivity and user experience by aligning technological solutions with business objectives, ensuring both were in sync for maximum impact.

Efare, Remote (US) - *Senior Software Engineer Manager*   `   *Dec 2018 -Nov 2020*
- Managed the development and deployment of the scalable ride-hailing platform "Efare," leveraging ASP.Net MVC and SQL to boost operational efficiency and security.
- Played a pivotal role in the architectural decisions and software development lifecycle, ensuring high-quality standards and timely delivery.
- Focused on system scalability, reliability, and security, enhancing the platform's overall performance and user trust.

Spider Grey, Karachi - **Software Engineer**   *Feb 2012 - Nov 2018*
- Developed and managed robust, efficient solutions with ASP.Net Webforms, Angular, .Net Core, SQL, and jQuery, focusing on scalability and client objectives.
- Provided technical leadership and guidance, ensuring project deliverables met high standards and client expectations.
- Played a key role in team collaboration and knowledge sharing, contributing to the overall skill enhancement of the team and successful project outcomes.

EDUCATION

PIAIC *Karachi, Pakistan*
WEB 3.0, Metaverse Blockchain Diploma

AMI Apex *Karachi, Pakistan*
Pro Ecommerce Developer

AMI Apex *Karachi, Pakistan*
Pro Web Developer Diploma

Aptech Computer Education *Karachi, Pakistan*
ACCP Pro Diploma

Gulzar e Hijri College *Karachi, Pakistan*
Intermediate

Shaheen Public School *Karachi, Pakistan*
Matriculation

TECHNICAL SKILLS

Frontend - Frameworks: Angular 15, ASP.NET MVC 5, Next.js 13, Nuxt.js

Frontend - Libraries: HTML 5, CSS 3, JavaScript (ES6), TypeScript, SASS, LESS, Bootstrap 5, Tailwind, Chakra UI, Material Design, AG-Grid, Ajax, Datatable, HighCharts, jQuery, NgRX, PrimeNG, RxJS, TypeORM, tRPC, ZOD

Backend - Frameworks: NestJS, .NET Core Web API 7

Backend - Libraries: ADO.NET, Apollo, Automapper, Dapper, Entity Framework 6, Entity Framework Core, GraphQL, JWT, OAuth, Postman, SignalR, Socket.IO, Websockets, Mongoose, Swagger, Passport, Serilog, MediatR, CQRS, FluentValidation, Knex.js, Hangfire

Architecture & Design Patterns: 3 Tier, Clean Architecture, Onion Pattern, Domain-Driven Design (DDD), Repository Design Pattern, Microservices, Monolith, Vertical Slice Architecture

Cloud - AWS: API Gateway, Auto Scaling, EC2, ECS, EKS, Elastic Beanstalk, ElastiCache, IAM, Lambda, Route 53, S3

Cloud - Azure: Application Insights, App Service, Azure Blob, Azure Functions, Azure SQL, ADB2C, Firewall, Resource Groups

Others: Bitbucket, Cloudflare, Docker, GitHub, GitLab, Netlify, Plesk, Vercel, VPS

CI/CD: GitHub Actions, Azure Devops

Databases: Airtable, Firebase, MongoDB, MSSQL, MySQL, Redis, SQLite, Supabase, NeonDB

Project Management Tools: Bitrix24, Slack, Trello, JIRA, Miro

Content Management Systems (CMS): WordPress, Joomla

Headless CMS: WordPress, Strapi, Payload

Payment Integration: PayPal, Stripe, JazzCash, EasyPaisa, WooCommerce, Shopify

Design & Prototyping: Photoshop, Illustrator, Canva, Adobe XD

Reporting Tools: SSRS, Crystal Reports

PROJECTS

Hayya (Road to Qatar)
Top Stack - .Net Core & SQL
Architected and spearheaded the development of the comprehensive back-end system for Hayya, a nationwide, pivotal project in Qatar. This system serves as a one-stop solution, facilitating ticket booking, travel arrangements, event management, accommodations, and other essential services. I maintained exemplary development practices and led a team of talented developers, emphasizing collaboration and team synergy.

Digital Sales System
Top Stack - Javascript, Angular
I led the development of a tablet-based application for Star, which improved efficiency and convenience. I developed the front-end using Angular and trained my team on the framework. The application had advanced modules, including a real-time sales dashboard, finance, reporting, and additional features. I traveled across five regions, training the entire organization on the software. The application utilized cutting-edge technologies such as MongoDB, NestJS, GraphQL, Socket.io, AWS S3, Angular, Typescript, RxJS, HighCharts, VPS, Git CI/CD to ensure performance, scalability, and effciency. I also delivered a mobile application for Executive Directors and CEO and a dashboard for all users to monitor progress. I integrated PWA functionality and documented API using swagger.

E-Fare
Top Stack - C#, ASP. Net MVC, SQL
It is a ride-hailing application that has been developed using ASP.Net MVC, SQL, and Entity Framework. The application provides separate mobile apps for drivers and customers, allowing them to connect seamlessly through user-friendly interfaces available on iOS and Android platforms. E-Fare has generated an impressive $2000 in sales revenue each month and continues to drive revenue growth. The application also features an innovative admin panel that streamlines back-end operations such as driver payouts, user management, analytics, detailed reports, and other critical features.

City Electronics
Top Stack - Woo-Commerce, Wordpress
This website was developed, and its inventory was seamlessly imported with a secure payment system. The e-commerce site It was also delivered successfully, with visually stunning UI/UX design. Robust security measures were implemented to safeguard valuable data, and the purchase department was led to identify optimal system requirements for improved productivity.

Hanco PK
Top Stack - Woo-Commerce, Wordpress
This website was developed, and its inventory was seamlessly imported with a secure payment system. The e-commerce site Hanco was also delivered successfully, with visually stunning UI/UX design. Robust security measures were implemented to safeguard valuable data, and the purchase department was led to identify optimal system requirements for improved productivity.

Build Site Diary
Top Stack - C#, ASP. Net Webforms, SQL, SSRS
It is a web application created using ASP.Net Web Forms and SQL Server that digitizes the construction process, streamlines workflow, and improves efficiency. Builders can define projects, create profiles, outline construction stages, sub-stages, billing plans, and monitor real-time progress on a live dashboard. The app optimizes construction workflow and increases accountability by providing instant alerts upon completion of project phases and notifying builders of due payments, resulting in better project management and streamlined financial processes.

OTHER

Certifications & Training: Angular 4: Beginner to Pro, Angular Fundamentals, Angular Professional, Building Applications with Angular 11 and ASP.NET Core 5, Clean Coding & Refactoring, Complete ASP.Net MVC 5 Course, Complete React Developer in 2023, Complete SQL Mastery, Complete Web Developer Course, Entity Framework 6 in Depth, GraphQL Crash Course, JavaScript the Advanced Concepts 2022, NgRx Store + Effects, NextJS Full Stack Crash Course, Object-oriented Programming in JavaScript, Pro Back End Developer Course, RxJS Basics, RxJS Masterclass, Socket.io Crash Course, Tailwind CSS - The Complete Guide, The Ultimate GIT Course, The Ultimate Redux Course, The Ultimate Typescript Course, Typescript Basics, Typescript Masterclass, Web Developer and ACCP Pro Aptech Computer Education, .Net Core 7: Clean Architecture Guide Full Guide, Ultimate AWS Certified Developer Associate 2023, AWS EKS Kubernetes-Masterclass | DevOps, Microservices, AZ-900: Microsoft Azure Fundamentals.

Languages: Fluent in English and Urdu.

Soft Skills: Leadership, Time management, Effective Communication

My articles:
1. Cache API calls in Angular using Interceptor
2. Don't use the filter method on Large Datasets
3. Unleashing the Power of Knex.js: The Next Level of SQL Query Building in JavaScript
4. Dynamically Managing Database Schemas with NestJS and Knex.js
5. Journey from 82289ms to 975ms: Optimizing a Heavy Query in .NET Core