**Waqar Habib Gill**

**FULL STACK ENGINEER**

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A results-driven, customer-focused, and articulate IT Professional, who can think “out of the box”. Solutions Architect with 10 years of hands-on development experience in building effective and quality-focused applications for platforms including web and desktop. A quality-conscious individual with an awareness of effective lightweight process-oriented development methodologies. I have a sound understanding of Enterprise and Service-oriented architecture. Have in-depth knowledge of building solutions in the domains of healthcare, the airline industry, and financial system ERP.

I believe in Learning with time and experience in everyday processes. I enjoy the daily changing world, which makes me a steadfast learner and keeps me updated with the latest technologies. With a rich experience in Information Technology, I strongly feel that I have a lot more to learn yet I have a lot to offer.

**WORK EXPERIENCE**

**Full Stack Developer**

VEVOLUX INC Sept 2019 – Present

**Projects:**

**Flight Booking Web App**

* I work on the Flight booking and ticketing engines for different Airline companies.
* It is a multi-functioning App that gives absolute control to the management of the airlines to control the traffic, booking, reservations, selections, and most importantly revenue control.
* The app is deployed by the best Airline companies in the world that are already working in USA/U.K/Australia/India/Canada.
* It is also across the airlines to notify the seat availability in any of the airline companies.
* It provides advanced features such as third-party integration within the system, inventory management, quotation management, b2b/b2c booking confirmations, one-way, round-way, and multi-city search options.
* It also provides features such as multiple filter search options for management and for all general users.
* It provides control for management to oversee customer management, customized design, and payment gateways.
* It also gives the freedom to embed the different travel agencies around the world to sell tickets, which helps to boost the revenue for both users.
* This App also enables travelers to search for flights to global destinations, book flights, and make online payments.

**Responsibilities:**

* Looked after different projects in which I designed the whole scheme of work from design, development, and implementation.
* Lead architecture for designing, developing, and implementing new features for different software.
* Ianalyze system flows, data usage, and work processes to investigate problem areas for further improvement.
* I help in requirement analysis of High-Level Design, Low-Level design, and complex code development.
* Wrote front-end code, and back-end code integrated utilizing Dot Net Core, Angular/React, SQL server, and Azure.
* Designed and developed software solutions after analyzing system performance standards.
* Analyzed multiple technical software designs and performances for clients to meet their demands and the results they want to derive from such technical solutions.
* Interpreted patterns and trends to improve algorithms and data processing.
* Planned, tracked, and managed short-term sprints and long-term deployments.
* Collaborated with different development teams on different project designs, and feature improvements.
* Have a scrum meeting in the morning with the team.
* We do sprint planning meetings at the start of the sprint.
* We do a retrospective and sprint review meetings at the end of the sprint.
* Participate in Refinement sessions for the user stories from a business and technical perspective  
  **Key Skills:** .Net 6, Angular 14, Azure, My-SQL Server, Mongo Db, Redis Cache.

**Full Stack Developer**

TECHIDEI, F e b 2 0 1 5 - Aug 2019

**Project:**

**Health Care Solution:**

* Designed, Built, delivered, and looked after an app that deals with Online Medical Services.
* The application has several functions to perform and connect doctors with patients online.
* Doctors can register with the App and Web app and their complete profile will be public to patients.
* Doctors can set their own schedules.
* Patients can look up doctors according to their medical conditions.
* Patients can also book Lab tests and schedule a time for sample collection.
* Lab technicians can also use this app for their business growth.
* This project also provides opportunities for Radiologists to expand their business.
* Project also includes services for Pharmacists to expand their business.
* Patients can also purchase medicines from this app and get them delivered to their houses.
* This app also provides services to big corporate companies that are concerned for the well-being of their employees.

Creating data structures, design patterns and front-end layers was my responsibility and I carried out all these developments with the help of other team members.

**Responsibilities:**

* Integration with different health systems keeping in view the specific healthcare industry.
* Work closely with public health experts for the development of solutions that can solve different problems in the sector of public health.
* Work closely with the product owners, infrastructure, and development teams to help deliver innovative, world-class SaaS solutions.
* Responsible for continuous improvement, by implementing best practices in software architecture, software development process and new technologies, etc.
* Deliver quality code by applying sound development practices, leveraging test-driven development methodology, and supporting test automation.
* Managing the project development life cycle along with all the stakeholders involved in the process of development including clients, developers, UI/UX Engineers, QA Engineers, and domain experts.
* Applications refactoring for performance optimizations.
* Routinely performs technical reviews of highly complex work for other developers.
* Execute unit testing and debugs code to ensure the quality of developed applications.
* **Key Skills:** .Net Core 3.1, React, NodeJs, AWS, My-SQL Server, Dynamo Db.

**Software Developer**

PromoZone, M a r c h 2013 – Jan 2015

**Project:**

**ERP FINANCIAL MANAGEMENT SYSTEM**

* The prime feature of this App was to track the profit of the company. This feature gives a bird-eye view of the total profit which a company generates on a fortnight basis. It tracks down the areas where Profit is being generated and where the company is incurring losses. This feature is very handy for top business managers to see the overall health of the business and its prospects.
* Another important feature on which I worked to build ERP for Finance management was Ledger Management. This feature keeps a thorough record of all the transactions the company was making daily. It was a friendly user which allowed multiple departments of the company to make the entries.
* Another important feature of this App is to generate a report on Payables which the company is liable to pay its vendors and creditors. This feature generates a report by integrating expenses and purchasing of the company.
* This ERP system allows making a complete report of the repository of all the physical assets of the company. One of the most striking features of this function is that it carries the depreciation calculator and tax implications.
* The analytics of this App provides real-time data on the financial conditions of the company. It helps financial managers to make predictions, and decisions for the company.

The currency management feature of this app helps the company to draw its financial reports in the single currency of choice of the company.

**Responsibilities:**

* Handling performance and speed-related issues, working on performance improvement of existing applications to gain performance and speed for a large-scale application running.
* Responsible for processing and performing all queries related to existing and new applications from time to time by clients and taking care of technical aspects.
* Responsible for work in the Agile process, followed by daily Scrum meetings to discuss ongoing processes and roadblocks.
* Expected to conduct system analysis and development, with limited support from professional staff, to keep our systems current with changing technologies.
* Development of new applications & enhancement in existing applications, with backend architecture developed on Amazon Web Services.
* Responsible for directly working with the Onshore team working in the United States of America on company products.
* Responsible for directly working with the Onshore team working in the United States of America on company products
* **Key Skills:** .Net Framework 4.8, Asp .Net MVC, Razor Views, Javascript, Jquery, My-SQL Server

How do I do that?

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| ASP.Net |

⦁ I work on the ASP.NET CORE MVC with Razor Pages, Razor Components, Middleware, Filters, and Attributes. I have worked on the REST WEB APIs using the HttpGet, HttpPut, HttpPatch, and HttpDelete protocols.

⦁ To pull data from the database, I use Entity Frame Core, Dapper, and NHibernate ORM's. With Entity Frame Core, I implemented Code First, Database First Approach, Migrations, Change Tracker API, Lazy Loading, Eager Loading, and Explicit Loading.

⦁ I work on the Version Control System. I have experience working in Git- version control, Azure DevOps, GitHub, GitLab, and BitBucket.

⦁ I use C# versions from 6-11 with .Net applications.

⦁ I use DI containers such as Microsoft.Injections, AutoFac, Unity, and Ninject for implementing dependency injection into the Asp .Net Core Applications

⦁ I use Memcached, Redis, and Entity Framework Core 2nd level Cache for implementing caching into the .Net Applications.

⦁ I have worked on relational databases like SQL Server, PostgreSQL, Oracle, and MySQL.

⦁ I have worked on cloud databases like Cosmos DB and Dynamo DB.

⦁ I have worked on document databases like MongoDB and Redis Cache.

I have worked on key-value databases like Redis Cache.

⦁ I have worked on real-time databases like Firestore and Rethink DB.

⦁ On the databases, I have worked on Database Design, DDL, DML operations, Views Store Procedures, and Triggers.

⦁ For Real-time communication, I use Web Sockets and Signal R Core in the applications.

⦁ For API clients and communication, I use three different technologies such as Rest, gRPC, and GraphQL. In HTTP Rest protocols, I work with Swagger. I send and receive data in JSON and SOAP formats. For GraphQL, I use HotChoclate.

⦁ For Logging, I use SeriLog and NLog to log the error, request/response, and specific details in the Asp .Net Core application.

⦁ I implemented Object Mapper using the Automapper.

⦁ For Task Scheduling, I Implemented it using Hangfire and NativeBackgroundService.

⦁ For Authentication and Authorization, I use different protocols such as Cookie Based, OAuth, Basic Auth, Token Auth, JWT, OpenID, and SAML. I implemented it using the Asp .Net Core Identity and Identity Server.

⦁ I have worked on Unit Testing and Integration Testing. For Unit Tests, I use frameworks MSTest, XUnit, and NUnit. For Assertions, I use Fluent Assertions. For mocking, I use Moq. For Integration Testing, I use WebApplicationFactory.

⦁ I use Azure Cognitive search and Elastic search for implementing the performant searching in the Asp .net Core application.

⦁ For internal communication between the microservices, I use patterns like Publish-Subscribe and Event-Driven. I implemented message brokers like RabbitMQ, Azure Bus Service, and Apache Kafka. I implemented Message Bus using Mass Transit.

⦁ For API Gateway, I use Ocelot. For containerization, I use Dockers. For Orchestration, I use Kubernetes. For Reverse Proxy, I use the YARP.

⦁ I implemented CI/CD by using GitHub Actions, Azure Pipelines, and Jenkins.

⦁ I work with MediatR, FluentValidation, Polly, Nuke, and Swashbuckle in Asp .net Core Application.

⦁ I have implemented Domain Driven Design, Test Driven Development, CQRS, and Event Sources for Design Patterns.

⦁ I work on Monolithic Apps, Micro Services Apps, Service Oriented Architecture, Serverless, Layered, Distributed Systems, Message Queues/Streams, Clients/Servers Apps, Service Mesh, and Twelve-Factor Apps.

⦁ I work with OOP, MVC, MVP, MVVM, ACID, Test Driven Development, and SOLID Design Principles.

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| Javascript |

* ⦁ In Javascript, I use different data structures including Indexed Collection, Keyed Collections, and Structured Data.
* ⦁ I also work on Exception Handling (Throw statement, Try/Catch/Finally, and Utilizing Error Objects) in Javascript.
* ⦁ I also work effectively in Asynchronous Javascript by two methods Callbacks and Promises.

⦁ I work on different Modules in JavaScript by using CommonJS, and ECMAscript Modules.

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| **Angular** |

⦁ I have worked with different RxJs operators like Filtering, Rate Limiting, Transformation, and Combination from RxJs Libraries. In RxJs Libraries, I also use observable patterns such as Observable Lifecycle and Marble Diagrams. I worked with Promise in Angular as well.

⦁ I work on basic parts of Angular like Components, Templets, Modules, Dependency Injection, Services, and Routing.

⦁ In Angular Templates, I use Interpolation, Property Binding, Templet Statements, Binding (Data, Props, Attrs, Events), Reference Vars, @Input, and @Output.

⦁ For Rendering in Angular, I work with Built-in Directives, Built-in Pipes, and Change Detection techniques.

⦁ I have worked with Reactive Forms and Template Driven forms in Angular.

⦁ With Routing in Angular, I use different techniques such as Lazy Loading, Configurations, and Guards. I implemented Router Outlet, Router Links, and Router Events.

⦁ For State Management I work on NGRX.

⦁ For Server side Rendering in Angular, I worked with Angular Universal.

⦁ For State Management I work on NGRX.

⦁ I have experience in Angular CLI.

⦁ I write the Unit Tests for Testing Pipes, Services with Dependencies, Component Bindings, Testing Directives, and Component Templates.

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| **REACT Js** |

⦁ For building UI components for the Apps, I use React Js.

⦁ I have worked on React Basic Compennets things such as JSX, Props, State, Conditional Rendering, and Composition.

⦁ With Functional Components, I used React Hooks like useState, useCallback, useRef, useMemo, useReducer, and useContext.

⦁ For Forms, I use React Hook Forms and Formik.

⦁ I used different Rendering techniques such as Component Life Cycle, Lists, Keys, Render Props, Refs, Events, and High Order Components.

⦁ I have implemented Routing with React Router in the application.

⦁ I use Redux and Context API for State Management in React.

⦁ For Testing purposes, I use Jest, React Testing Library, and Cypress in the application.

⦁ To call Rest APIs in React, I use services like SWR, react-query, and Axios.

⦁ For GraphQL, I have used the Appolo client in the React App.

⦁ I have experience in CLI Tools including Vite and Create React App

⦁ I am good at using React framework Nextjs.

⦁ For Styling, I have worked with CSS Modules and Material UI.

⦁ I have worked on the Suspense, Portals, Error Boundaries, and Fiber Architecture in React.

⦁ For the layout of the pages of HTML, I use CSS

⦁ I use CSS for making Layouts such as Floats, Flex, and Grid.

⦁ I also use CSS responsive designs using Media Queries.

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| Azur Services |

⦁ In Azure Databases, I have worked on Cosmos DB, SQL, MySql, PostgreSQL, and Redis Cache

⦁ In Azure Compute, I used App services, Azure Functions, WMware Solution, Container Apps, Container Registry, and Service Fabrics.

⦁ In Azure Development, I worked on App configuration, Azure DevOps, Deployment Environment, and Signal IR service.

⦁ In Identity and Security in Azure, I use Azure Active Directory and Azure Key Vault, and Cognitive Search.

⦁ I work on API management, Event Grid, Logic Apps, Notification Hubs, Azure Monitor services like Application Insights, Service Hubs, and Web PubSub Service.

⦁ I work with Application Gateway and Load Balancer.

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| **AWS** |

⦁ For effective workload, I use Elastic Compute Control of AWS. It helps to manage the load effectively.

⦁ To store Data and for scalability, I use AWS’ service Amazon S3.

⦁ For serverless NoSql, I have an experience in Amazon DynamoDB.

⦁ To run code without being troubled by servers and clusters I use Amazon Lambda services.

⦁ To increase the performance of an application and database I use Amazon ElasticCache.

⦁ To enable the communication and messaging services I embed the Amazon SNS service.

⦁ To control the access and permission I use AWS IAM.

⦁ I also have experience using Amazon SQS to manage messages in bulk volume.

⦁ For Authentication and control access, I also worked with Amazon Cognito.

**Other Useful Information**

**Interest and Hobbies:**

✔ Reading e-books, research articles and flash news

✔ Listening Music

✔ Watching Documentaries