



NWAIGWE UCHENNA. S

SENIOR BACKEND DEVELOPER |

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SUMMARY

A skilled and motivated Software Developer with over 8+ years of hands-on experience designing, developing and deploying enterprise-level applications using Microsoft Technologies. Possesses a proven track record in C#/.NET, Solid principles and .NET Core, with a strong background creating high performance applications.

Proficient in Azure environments, Skilled in web development and coding with a commitment in staying abreast in emerging technologies, adept in implementing object orientated principles, development methodologies and design patterns. T SQL and database knowledge using MSSQL

SKILLS

- C#
- JavaScript (ES7+)
- Azure/DevOps
- SQL
- REST API
- Entity Framework
- .NET/.NET Core
- Git
- Typescript

EDUCATION

Diploma in Software Engineering (2010 - 2011)
Koenig Solutions, New Delhi India

International Diploma in Computer Science (2014 - 2016)
NCC British Education UK

BSc Business Computing and Information Systems (2018 - 2019)
University Of Central Lancashire, UK

CERTIFICATES

- ITIL Service Management v3
- Microsoft Certified Developer Associate
- Microsoft Certified DevOps Engineer Expert - In View
- Microsoft Certified Azure Solutions Expert - In View
- Microsoft Certified Professional Developer
- Microsoft Certified Technology Specialist

TECHNICAL SKILLS

LANGUAGES & FRAMEWORKS:

C#, MSSQL, JAVASCRIPT, ASP.NET CORE, TYPESCRIPT ENTITY FRAMEWORK CORE

API & PROTOCOLS:

RESTFUL API design, JSON, WebSockets

DEVELOPMENT METHODOLOGIES:

AGILE DEVELOPMENT, SCRUM, TEST DRIVEN DEVELOPMENT,

DATABASE MANAGEMENT:

SQL, Entity Framework Core

OTHER:

Git, Azure DevOps, GCP, Infrastructure as Code, Monitoring and Logging

WORK EXPERIENCE

.NET Micro-service e-Commerce App

(Jan 2024 – Aug 2024)

Hermes Gold Solutions Ltd

Project Description: Development of multiple APIs in a Micro-service project using .net core with each API having a specific functionality i.e. Authentication and Authorization API using .net identity, Product, Email, Coupon Shopping Cart, Order, and Rewards API. An MVC Application was built to interact with all the individual Micro-services and to bring everything together. After building the APIs, communication was established between, the APIs using Azure Service Bus a third party tool, which comprised of queues, topics and subscriptions to handle asynchronous communication between the APIs. After I was done with communication, I configured a gateway using Ocelot an open source tool used for encapsulating the micro-services. Finally, I deployed the entire code on Azure. The focus of this project was to build multiple APIs loosely coupled and independently deployable that work in conjunction with each other to produce a seamless final solution.

Responsibilities

- Designed and developed multiple Micro service APIs in C# and ASP.NET Core, ensuring high performance and responsive application, with a secure and efficient data handling process.
- Applied SOLID principles for optimizing the code structure to improve app scalability and maintainability
- Coordinated with system partner to finalize designs and confirm requirements already existing clients
- Implemented entity framework to persist data to the database and migrating data using code first migration
- Implemented Service Bus and its components.
- Involved in web services design implementation.
- Designed, build and optimized the backend and its components for scalability of real-time application processing used by thousands of client end-users, collaborating closely with the design and product team to deliver robust features that enhance user engagement
- Worked with in the Network interactions using JSON, Websockets and with REST API calls.
- Performed the CRUD on all the services
- Brought initiatives to enhance the security of the application, performance and contributed to customer satisfaction
- Implemented RabbitMQ as a mediator between producers and consumers thereby facilitating communication between different components and enabling asynchronous messaging.
- Lead DevOps and SRE practices for continuous improvement and continuous deployment in system reliability as well as monitoring and automated logging, thereby significantly increasing operational and code efficiency
- Developed high quality code by conducting thorough code reviews and implementing coding best practices which resulted in a 44% decrease in system bugs
- Hosted the APIs, Modified the Environmental Variables and deployed the web project on Azure

Tools Used:

- Visual Studio 2022 (.NET8)
- SQL Server /SSMS
- TypeScript
- Azure
- Azure Service Bus
- Ocelot
- Postman
- Payment Integration

Ecommerce Store (.NET 7 & Angular)

(Jun 2023 – Oct 2023)

Hermes Gold Solutions Limited, Nigeria

Project Description: Development and deployment of a store application.

This is an application for buying products online. The client side was developed with Angular.js while the backend was built with .NET Core.

Responsibilities:

- Participated in the various stages of SDLC from discovery to final deployment as well as ensuring best outcomes from the client
- Created and designed the database using entity framework code-first, and migrated data to the database.
- Used Repository pattern to implement the logic used to query the database through entity framework and contain it in a repository
- Created a generic repository and interfaces which was used by the entity classes to perform some specific functionality
- Served static content to the API
- Implemented sorting, searching, filtering and pagination functionality in a list using specification pattern
- Implemented CORS (Cross Origin Resource Sharing) before handing over the API to the client side
- Setting up angular on the client side in order to consume the API in the store application
- Added Bootstrap and Font awesome for styling
- Built the user interface for the client application
- Setup and configured Identity on the API which was responsible for allowing the registration of new users on the application
- Used Azure DevOps for CI/CD processes, ensuring fast and seamless deployment cycles
- Collaborated with the frontend, backend and full-stack engineers, the product team as well as QA to enhance the new features and to handle bugs rapidly
- Optimized MSSQL databases to ensure efficient data management

Tools Used:

- VSCode
- .NET Core
- C#
- Entity Framework
- Git
- MSSQL
- Angular.js

Scheduler App

Hermes Gold Solutions Ltd

(Feb 2023 – May 2023)

Project Description: An Activity Scheduler Platform developed for an Entertainment outfit where a user logs onto the platform and sees a list of activities on the dashboard. If the user clicks on an activity the activity details is displayed which includes a chat functionality (SignalR) that enables the user to chat in real time. The user can also cancel its place registering for the specific activity making the system remove him from the attendance list. A user will be able to follow and unfollow other users in an activity.

The creator of an activity can manage an activity by updating the activity information. There is also a profile editor where a user can update their profile with a photo widget as well as filters that enable users' view who they are following.

Responsibilities:

- Implemented the Clean Architecture and the CORS + Mediator Pattern
- Setup and configured ASP.NET Core identity for authentication
- Added a client-side login and register function to the React application
- Built the UI using Semantic UI
- Added Photo Upload widget and created user profile pages
- Used React Final Form to create re-usable form inputs with validation
- Used Auto-Mapper in ASP.NET Core to map the model to the DTOs and vice versa
- Used SignalR to enable real time web communication to a chat feature in the app
- Seeded data to the database
- Created CRUD actions using React
- Created the React project and its components
- Created the API on the client side and fetched data from it
- Tested the API controller on the backend and using Postman
- Created the query handlers
- Performed housekeeping in the Program.cs class
- Setup Axios and added its load indicators
- Implemented React-Router API to the application

- Published the application on IIS

Tools Used:

- VSCode
- .NET 7
- React
- MobX
- React Router
- Formik
- JSON Web Tokens
- SignalR
- JavaScript
- PostgreSQL

ASP.NET MVC Core Developer Full Stack)

(Oct 2022 – Jan 2023)

Consultant for Hermes Gold Solutions Limited, Nigeria

Project Description: Development and deployment of a Shopping App (FringeSports)

A project built with ASP.NET MVC6. The project is an online sports shop where items displayed can be searched, viewed and purchased on the application. The back end administrators can view purchases made, add items and generate sales report for the items bought, based on the reporting criteria.

Responsibilities:

- Creating and designing the database using entity framework code-first, and migrating data to the database.
- Consistently met deadlines for database creation and implementation projects while working on the software and client service teams to further improve the product.
- Created T-SQL objects & scripts used to maintain data integrity across all databases throughout database servers (Stored Procedures, Triggers, and Functions).
- Demonstrated ability to adapt to company's evolving environment by learning quickly & taking on expanded roles by implementing new procedures and improving existing ones.
- Carrying out unit test on features of the system component by isolating the test target using MOCK (Moq)
- Dynamically selecting and implementing a class for an interface to enable inversion of concerns (IOC) by using Ninject conditional binding
- Using Angularjs to update, list, create and delete products from a single page and data-binding of controllers, views, models, routing and carrying out validations on the each page.
- Using Bootstrap and CSS for the page view design

Tools Used:

- Visual Studio
- .NET Core
- C#
- Entity Framework
- SQL Server/SSMS
- Unit Testing