



Nwaigwe Uchenna. S

SENIOR.NET DEVELOPER

EMAIL: tsatie2010@hotmail.com

PHONE: + (234)8033970852

Github: <https://github.com/marcocerrutti>

Experienced software developer with over 7 years experience on different IT platforms with a history of working in the IT services industry. Skilled in backend web development, Software development and Development Lifecycle, System Architecture, Business Process Analysis and a Strong Engineering Professional.

SKILLS

- Detailed oriented with strength in organizing, prioritizing completing projects in a time sensitive environment
- Excellent interpersonal and problem solving skills to resolve queries courteously and professionally
- Exceptional Verbal and written communication skills with ability to articulate thoughts clearly

DIPLOMA IN SOFTWARE ENGINEERING

(2010 - 2011)

KOENIG SOLUTIONS, NEW DELHI INDIA

INTERNATIONAL DIPLOMA IN COMPUTER SCIENCE

(2014 - 2016)

NCC UK

B.Sc. BUSINESS COMPUTING & INFORMATION SYSTEMS

(2018 - 2019)

UNIVERSITY OF CENTRAL LANCASHIRE, UK

CERTIFICATES

- ITIL service management
- MCPD (Microsoft certified professional developer) - web applications
- MCPD (Microsoft certified professional developer) – asp.net
- MCTS (Microsoft certified technology specialist) - web applications
- PMP (IN PROGRESS)
- TOGAF (IN PROGRESS)

KEY PROGRAMMING LANGUAGES

CORE PROGRAMMING LANGUAGES:

C#, SQL, JavaScript

DATABASES:

MS SQL SERVER (2019), AZURE, AZURE DevOps
SQL, MY SQL, PostgreSQL, MongoDB

TECHNOLOGIES AND FRAMEWORKS:

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.Net Framework, Microsoft Azure,
.Net Core 2.1-. Net7,
MVC, EntityFrameworkCore
Bootstrap, JavaScript

AGILE DEVELOPMENT, SCRUM, KANBAN, TDD, React, React-Native,
WPF, XAML

DEVELOPMENT

LINQ, RESTful API

METHODOLOGIES:

WORK EXPERIENCE

.NET 7 (RESTful API, Visual Studio 2022)

(Dec 2022 – Mar 2023)

Hermes Gold Solutions Limited

Project Description: Magic Real Estate Two projects were created, an API with multiple endpoints and an MVC web Application for consuming the API. The project was built for a real estate company where a user can view the list of properties in an estate as well as check their descriptions.

Responsibilities:

- Setting up a local Git repository for tracking code changes in the local machine
- Configuring a remote Git repository for pushing to and from the local repository
- Implemented multiple endpoints and performed CRUD operations on the API
- Created DTOs on the API and used AutoMapper to expedite the mappings
- Used Entity Framework to persist data to the database
- Implemented repository pattern with the Database and Entity Framework Core
- Implemented Authentication and Authorization in the API using bearer tokens
- Implemented versioning on the API
- Added filters for search, sort and pagination
- Link project to an Azure DevOps build pipeline to kick off the build process
- Define a repository interface and implement a mock of it
- Built a Web Application (MVC) to consume the endpoints of the API along with Authentication endpoints
- Deployed the solution on Azure

.NET 7, React18, MobX (Visual Studio 2022)

(Aug 2022 – Nov 2022)

Hermes Gold Solutions Limited

Project Description: An Activity Scheduler Platform developed for an Entertainment outfit where a user who logs on to 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 that enables the user to make comments in real time. The user can also cancel its place registering for the specific activity making the system remove the user from the attendance list. A user will be able to follow and unfollow other users in an activity, while 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 React Router
- Used AutoMapper in ASP.NET Core
- Used SignalR to enable real time web communication to a chat feature in the app
- Created the domain entity and adding Entity framework to the DbContext class
- Created the database and seeding 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
- Setup MobX and implemented its actions
- Implemented React-Router API to the application
- Published the application on IIS

.NET CORE 5 (Microservices using Rabbit MQ Messaging Service)

(Mar 2022 – Jun 2022)

Hermes Gold Solutions Limited

Project Description: Microservice using an eventbus.

A distributed system MealHub, where a user can place an order, when the order is finalized, a series of events take place using an eventbus for publishing and subscribing to events.

The presentation layer which consist of a web and mobile app sends http calls to the sender Microservice which has its own backend system sitting on its own server separate from other microservices. When the microservice gets a request from client side app (presentation), the microservice uses an eventbus to publish the request to a queue which resides in the RabbitMQ Server. When the message is published, it is displayed in queue where other microservices subscribers subscribe to the events displayed in the queue while the eventbus manages the orchestration of the messages in the queue.

Responsibilities:

- Handled the configuration of the RabbitMQ Admin UI dashboard on the system
- Designed and Developed the application architecture by creating Domain.Core which drives all the entities and objects required for the EventBus
- Applied the CQRS(command query responsibility segregation pattern) the Bus folder, and Command folder where all the events were subscribed to.
- Created an Interface(IEventBus) which has multiple buses within it and implemented the RabbitMQ service EventBus class.
- Created a subscription Microservice to transfer messages and events situated in the RabbitMQ server queue and performing work on its handler
- Added events, eventHandling and subscribing to the transfer event from the transfer Microservice
- Configured EventBus Subscription
- Created a Web (MVC) project to communicate with the Microservice
- Created ViewModels and DTOs for the transfer of data between the presentation and the app layers

.NET CORE 5 (Asp.net Core EntityFrameworkCore)

(August 2021 – Nov 2021)

Consultant for Synchrony Nigeria Limited

Project Description: Meal Delivery Application: The application basically hinges on a user ordering a meal online and gets delivered at his doorstep. The Application has a landing page where food and drinks are displayed and the user can select a meal based on a category. When the user clicks on the order button he will have the option to add the meal selection to the shopping cart. In the shopping cart the user can update his selection and make payment

Responsibilities:

- Implemented Clean Architecture as the Project Architecture
- Built the database schema
- Created the project layers and Implementing Repository Design Pattern
- Created the Database using Entity Framework Code-First Migrations
- Created the Login/Signup forms
- Implemented Security – Authentication and Authorization
- Built the UI using Bootstrap
- Created the Mobile first design to make the application Mobile Friendly
- Created the Cart Service
- Building the Modules (i.e. User and Admin)
- Uploading Product Images
- Created the Shopping Cart and Cart UI
- Implementing and Integrating Payment using PayPal Payment Service
- Deploying and hosting the Application using IIS
- Configuring a remote git repository for pushing to and from the local repository

Technologies Used:

- ASP.NET Core
- LINQ
- .NET Core
- C#
- Bootstrap
- EntityFrameworkCore Code-first
- SQL Server
- JQuery

ASP.NET CORE5 (RESTFul WEB API)**(March 2021 – July 2021)***Consultant for Synchrony Nigeria Limited*

Project Description: Created and Consumed a RESTFul API for a MovieWeb Application. An API application was developed and deployed using ASP.NET Core 3.1 which entailed the display, addition and update of various movies on the client end of the application thereby enabling the users of the application to create an account and interact seamlessly with the application

Responsibilities:

- Configured models with its key data annotations and persisted the models to the database
- Created repositories to perform CRUD operations on the application (which entailed creating a class repository which implemented the repository interface thereby enhancing loose coupling through dependency injection)
- Registered the DbContext, an AutoMapper and Swagger to the Configure Services Middle-ware
- in the Startup class
- Used DTOs to decouple persistent models from the API model and transfer data to remote interfaces
- Used AutoMapper to convert the model classes to DTOs and vice versa.
- Implemented Swagger documentation thereby exposing the API versions
- Created and used Controllers to access the methods within the repositories
- Authorized the API using bearer tokens
- Tested the APIs with Postman
- Used Swashbuckle.AspNetCore.Swagger in exposing API objects as json objects
- Used SwaggerGen to build document objects
- Used SwaggerUI tool to interpret the generated OpenAPI specifications to build documentation UI and for testing API actions
- Implemented XML comments to improve documentation
- Added general API related information in the configure services middleware within the startup class
- Implemented API versioning

- Generated the correct response types in the application using status codes

ASP.NET CORE (Backend)

(January 2021 – March 2021)

Consultant for Synchrony Nigeria Limited

Project Description: An upgrade on a project built and deployed with Asp.net core 3.1 using Dapper Micro Object Relational Mapper (ORM) to replace its existing functionality which had the Entity Framework ORM. The client wanted the system to maintain loose coupling, separation of concerns and the optimize the system's performance using the classic SQL queries

Responsibilities:

- Replaced the existing Entity Framework CRUD Operations with Dapper CRUD Operations
- Used Dapper to write and execute SQL queries
- Used Dapper Contrib extension methods
- Worked with relations N+1, parameters in Dapper
- Setting up a local git repo for tracking code changes in the local machine
- Configuring remote git repository that will push to and from the local machine
- Moved files from the working environment to staging and then committing the files
- Managed the log and controlled the state of the project environment with branches
- Cloned and worked with the existing git repository to make a copy of a GitHub project locally
- Use a GitHub branch as a template for a new project

ASP.NET MVC Core DEVELOPER (Full-Stack)

(April 2020 – August 2020)

Consultant for Hermes Gold Solutions Limited, Nigeria

Project Description: A project built with ASP.NET Core 3.1 Razor Pages for the development and deployment of an online Auto Garage where vehicle history and their service history are viewed by the customer and employees. The Administrator registers the employee and adds the customer with their cars. Once a customer brings in a car for service at the garage, the registered employee will add a new service for the customer, and then the customer will be able to view the history of their vehicle as well as the service history. The Web Application implements some additional functionalities like making payment and sending emails, logging in with external authentication accounts using social media like Facebook and other advanced features.

Responsibilities:

- Configuring the DbContext class and registering the service pipelines within the startup class
- Configuring and scaffolding the code for identity pages
- Building the application models for the persistence of data to the database
- Gathering user requirements from clients and project stakeholders and interpreting the requirements into functional specifications
- Designing the software architecture from the functional requirement specification and collaborating with the project team to achieve the required design
- Carrying out unit test on the required functions to ensure code integrity
- Collaborating with the project manager to develop the software documentation from the initiation(requirement) phase to deployment phase and also developing the SLA (Service Level Agreement) from the post implementation phase

ASP.NET Core 2+ & Razor Pages RecipeHub

(July 2019 – Dec 2019)

Project Description: A web Application using ASP.NET Razor pages framework built on top of ASP.Net Core 2.1 platform. The application is a recipe catalog that enables a confectionary brand manage their baking recipes and enable the registered users to view and add recipes to the application. There is a dynamically generated list of recipes, which contains links redirecting the user to the description page where the ingredients and directions are displayed.

- Dependency injection was used to create an abstraction of the model classes using an Interface.
- A middle-ware, which is the database-context, was created to allow an interaction between objects in an object oriented manner
- An implementation of the service interface was used to wrap the DbContext around the database operations
- A class was created using Moq to generate data for the tests to enable the application to be well tested before establishing a connection to the database.
- Custom handlers were added beyond GET and POST
- Maintainability was increased using dependency injection and loosely coupled using the Inversion of Control and Dependency Injection principle for maintainability.

Technologies Used:

- ASP.NET Core
- JavaScript, HTML & CSS
- C#
- Bootstrap
- Entity Framework Code-First
- Moq

ASP.NET MVC 5 & React.js

(Sep 2018 – March 2019)

Health Care Limited

Project Description: A Full-Stack web application for an innovative health care company, which enables the company to display their food online, and the customers to also make orders on the platform with a shopping cart. The front-end of the application was built with React.js to enhance usability and user experience, while the back end was built with ASP.Net MVC 5, leveraging the ability of Entity framework an ORM for persisting data to the database.

Technologies Used:

- Traditional full .Net Framework
- JavaScript, HTML & CSS
- C#
- React.js
- Entity Framework
- SQL Server 2014

ASP.NET Developer/Business Analyst

(Oct 2017 – May 2018)

Centrifuge Nigeria Limited

Project Description: Development and Deployment of HRM/ Payroll system.

A system built to automate the Human Resource Management and Payroll System of the Federal Capital Territory Administration. This entailed developing an application that provides a centralized database to aid the FCT administration in manpower planning and decision making and Facilitate the automation and storage of personnel records to support monitoring of staff emolument payments against budget as well as personnel records of every staff.

Responsibilities

- Adopted the design theme across the application
- Coordinated with system partner to finalize designs and confirm requirements already existing clients
- Implemented entity framework to maintain the connection of mobile applications
- Developed back end of the application utilizing visual studio.
- Involved in User Interface development and web services design implementation.
- Implemented data bindings defined in XAML file for the connection of View and View Model
- Worked within the Network interactions using JSON with REST API calls.
- Created helper classes and partial views used in the Application.

- System Deployment on a Cloud Server (Microsoft Azure and AWS)

ASP.NET DEVELOPER/ANALYST

(Sep 2016 – Mar 2017)

Consultant for Hermes Gold Solutions Limited, Nigeria

Project Description: Development and Deployment of a Hospital Management System.

A project built with ASP.NET Core 1.0. The application Integrated Hospital Management (IHM) was built using the classical approach of a patient to a hospital management system. Where a patient is registered and has his records stored in the hospital's repository. Any hospital staff based on privilege will have access to the patient's record. An admin or back office area was be created using CRUD functionalities for accessing and managing patient's records accessible only to the logged-in administrators.

The project goal of this was be to automate the functionalities of the hospital management staff to enable a seamless work relationship between the hospital staff and patients and to have a strong repository for audit and management of patient and staff record.

Responsibilities:

- Design and Development the data model using Entity Framework Code first and creating the various database classes
- Configuring the packages using Project.json and registering the services in the startup class
- Creating unit tests for each object within the project and page links using Xunit
- Configuring the URL route to arrive at the application root
- Creating and applying Database Migration and applying pagination
- Adding tag helper classes
- Styling the content using bootstrap and CSS
- Technical Documentation of the project (HLD, LLD, FSD)

Business Process Manager/.NET DEVELOPER

(Oct 2014 – Aug 2016)

Consultant for Galaxy Back Backbone Limited (GBB), Abuja, Nigeria

Project Description: Electronic Document Management System (EDMS)

Part of the Project Team Lead that developed, Designed and documented the EDMS solution for the Ministry of Mines and Steel Development (MMSD). Physical documents were digitized and stored into a database and viewed by the user working on these online documents. Implemented reporting services for managing clients.

Responsibilities:

- Requirement and needs analysis
- Business Process reengineering
- User and Administrator Training
- Software/Hardware Requirement Solution
- Maintained operations from initiation until Aug 2016
- Technical Documentation
- Solution Architecture

.NET Developer

(Feb 2014 – Sep 2014)

Ministry of Petroleum and Resources, Abuja, Nigeria.

Project Description: Worked as a team in the design and development of the Visitor Appointment System (VAS) for the Ministry of Petroleum and Resources. The program entailed granting every visitor upon entry into the ministry an identification at different check points a pass (check in/check out pass). A log of the visitor activity was stored in their repository for generating reports.

Responsibilities:

- Developed a web application using ASP.NET, MVC and C#
- Followed the 3tier MVC architectural Pattern for application development with the View, Controller and Model being loosely coupled for the ease of maintainability.

- Graphical user interface was designed using ASP.NET 4.5, HTML5, CSS3 and Bootstrap. The business logic was coded using C# and Razor
- Used Entity Framework for the persistence of data.
- Developed Stored Procedures, Views, User Defined Functions and T-SQL scripts.
- Participated in several Client meetings with the team and the Project manager to brainstorm solutions for improvements/amendments.
- Key Technologies: Visual Studio 2013, ASP.NET 4.5, SQL Server 2012, C#, JavaScript, HTML5, CSS3