

MUHAMMAD OSAMA QASEEM

Full Stack Developer

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SUMMARY

I am a dedicated professional with a strong commitment to excellence and a passion for continuous learning. I aim to contribute significantly to my field and am always seeking opportunities to leverage my skills and knowledge. My diverse experiences have equipped me with a unique perspective, and I am eager to embrace new challenges in my career.

Education

Hajvery University Lahore

Nov 2020 - Oct 2024

Bachelors in Computer Science

Internship

Quest Tech Solutions Pvt. Ltd.

Feb 2024 - Sep 2024

Full Stack Web Developer

Technologies

ASP.NET • React JS • Vue JS • SQL Server • Flutter • Dart • Bootstrap • Tailwind CSS

Skills

ASP.NET Core & API Development

- Architected and implemented robust RESTful APIs using ASP.NET Core, ensuring compliance with HTTP standards and delivering secure, scalable backend services.
- Integrated Entity Framework Core (EF Core) for seamless database operations, enabling efficient data access and manipulation through SQL Server.
- Developed and maintained complex API endpoints to handle various business logic, optimizing data flow between frontend and backend through CRUD operations.
- Designed and implemented authentication and authorization mechanisms using ASP.NET Identity and JWT (JSON Web Tokens), securing API access and managing user roles and permissions.
- Enhanced API performance by incorporating caching strategies (e.g., in-memory caching) and asynchronous programming, ensuring the application handled high traffic and concurrent requests effectively.
- Utilized Swagger for API documentation, providing developers with an interactive interface for testing and understanding API endpoints.
- Handled API versioning to ensure backward compatibility while deploying new features, minimizing disruption for existing users.

SQL Server

- Designed and optimized complex SQL queries, stored procedures, and triggers to handle data-intensive operations in high-traffic applications.
- Managed large relational databases in SQL Server, optimizing database performance by implementing indexing strategies, query optimization, and partitioning for efficient data retrieval.
- Conducted data migration from legacy systems to modern architectures, ensuring data integrity, consistency, and security during the migration process.
- Implemented database normalization to reduce redundancy and improve data integrity while designing relational schemas.

ReactJS

- Developed scalable, high-performance user interfaces using ReactJS, leveraging component-based architecture to ensure code reusability and maintainability.
- Implemented state management solutions with Redux to handle complex data flows and ensure seamless data updates across components.
- Optimized client-side rendering to reduce load times, improve SEO, and enhance user engagement by incorporating techniques such as lazy loading and code splitting.
- Integrated third-party libraries like React Router for client-side navigation and Axios for API requests, ensuring smooth data flow between frontend and backend.

VueJs

- Developed responsive and dynamic single-page applications (SPAs) using VueJS, utilizing its reactive data binding and Vuex for centralized state management.
- Enhanced user experience by creating modular components, allowing for scalability and better code organization.
- Implemented Vue Router for efficient navigation in multi-page applications and integrated APIs for data retrieval, ensuring fast and smooth user interactions.
- Worked closely with the design team to implement pixel-perfect UIs and improve UX based on real-time data.

Flutter & Dart

- Developed cross-platform mobile applications for both iOS and Android using Flutter and Dart, achieving native performance with a single codebase.
- Integrated Firebase for real-time data synchronization and cloud functions, enabling a seamless, connected user experience across devices.
- Utilized Flutter's widget tree and state management solutions like Provider to manage app state effectively, ensuring a responsive and interactive UI.
- Implemented RESTful APIs to fetch data asynchronously.

Projects

E-commerce Website

Full Stack Developer (React.js & ASP.NET Core)

- **Description:** Developed a fully functional e-commerce platform that allows users to browse products, manage shopping carts, and make secure purchases. The platform features both a user interface for customers and an admin panel for managing products and orders.
- **Key Responsibilities:**
 - Frontend:**
 1. Built the user interface using React.js, ensuring a seamless and responsive shopping experience.
 2. Integrated state management with Redux to handle user sessions, shopping cart, and order processing.
 3. Implemented React Router for smooth navigation between product pages, cart, and user profile sections.
 4. Developed dynamic product listing, filtering, and search functionalities to enhance user experience.

Backend:

1. Created RESTful APIs using ASP.NET Core to handle product management, user authentication (JWT), and order processing.
2. Implemented database operations using Entity Framework Core with SQL Server for product storage, order tracking, and user management.
3. Set up user roles and permissions for secure access control, with admin features for adding, editing, and managing products.
4. Integrated Stripe API for secure online payments, ensuring safe and efficient transaction processing.

- **Technologies Used:** React.js, Redux, ASP.NET Core, Entity Framework Core, SQL Server, Stripe API, Tailwind CSS/Bootstrap.

Point of Sale (POS) System

Full Stack Developer (ASP.NET Core & Vue.js)

- **Description:** Developed a comprehensive Point of Sale (POS) system to handle retail transactions, manage inventory, and generate sales reports. The system is designed for use in retail stores, enabling fast and secure sales transactions, while providing real-time inventory updates and detailed analytics for business owners.

- **Technologies Used**

Frontend:

1. **Vue.js:** Created a fast and responsive user interface for the sales and admin dashboards, utilizing Vue's component-based architecture for modular and reusable code.
2. **Vuex:** Implemented Vuex for state management, ensuring a consistent data flow between sales, cart, and inventory systems.
3. **Vue Router:** Used Vue Router for seamless navigation between different sections of the application (e.g., Sales, Inventory, Reports).
4. **Axios:** For communicating with the backend API to handle product data, sales, and inventory updates.

Backend:

1. **ASP.NET Core:** Developed RESTful APIs for managing products, sales transactions, and user roles. Ensured the backend was scalable and secure, using industry-standard practices for handling data and authentication.
2. **Entity Framework Core:** Used EF Core to interact with the SQL Server database, ensuring efficient and secure storage of products, sales records, and customer data.
3. **Authentication & Authorization:** Implemented JWT-based authentication to secure access to different sections of the POS system, ensuring that only authorized personnel can access sensitive admin features.

Database:

- **SQL Server:** Designed the database to store all product, sales, and customer data. Utilized indexing and optimized queries to ensure the system could handle high volumes of transactions efficiently.

Additional Features:

- **Barcode Scanning:** Integrated barcode scanning functionality for fast product addition to the cart.
- **Offline Mode:** Enabled offline sales processing, allowing transactions to continue even when the system loses internet connectivity. Data is synced with the server once the connection is restored.
- **Payment Gateway Integration:** Integrated third-party payment gateways to process credit/debit card payments securely.

PerkUP – Loyalty Application

Full Stack Developer (ASP.NET Core, React.js, Flutter)

- **Description:** PerkUP is a comprehensive loyalty application designed to enhance customer retention and engagement by offering users personalized perks, discounts, and rewards. The platform allows businesses to create and manage loyalty programs while customers can easily track their points, view available rewards, and redeem offers through an intuitive mobile app and web-based interface. The project included a web admin dashboard and a customer-facing mobile app for Android, ensuring seamless communication between the two via secure APIs.

- **Technologies Used**

Frontend:

1. **React.js:** Utilized React's component-based architecture to create a scalable and dynamic admin interface.
2. **TypeScript:** Enhanced development with static typing, ensuring fewer runtime errors and improved code quality.
3. **Tailwind CSS:** Applied utility-first CSS framework for building responsive and aesthetically pleasing UIs quickly.

Backend:

1. **ASP.NET Core:** Developed the backend API to handle business logic, data management, and communication between the web and mobile platforms.
2. **SQL Server:** Implemented relational database management for secure and efficient storage of user data, loyalty points, and transactional records.
3. **Entity Framework Core:** Used for seamless integration between the database and backend, allowing easy management of queries and data relationships.

Mobile App (Android):

1. **Flutter:** Developed the Android mobile app with a native-like experience and a single codebase.
2. **Dart:** Utilized Dart as the primary programming language for Flutter, ensuring smooth performance and real-time data fetching through RESTful APIs.

API and Security:

1. **JWT (JSON Web Tokens):** Implemented for secure authentication and authorization.
2. **RBAC (Role-Based Access Control):** Managed user roles and permissions, ensuring proper access control.
3. **OAuth2 & SSL Encryption:** Ensured secure communication between the frontend and backend, protecting sensitive user data.