AKSHAY KUMAR

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Software Engineer, Full-Stack .NET Developer

Backend Stack: Python, PHP, Java, C++, C#, .NET Core, NodeJs .NET6, ASP.NET WebForms, WinForms, WPF, MVC, Dapper, Dapper.Contrib, SQL, NoSQL, EntityFramework, ADO.NET, LINQ, MediatR, WCF, WebAPI (Rest/Soap), Unit Testing, JWT, AutoMapper, Rabbit MQ, Redis Cache, Azure Functions, Service Bus, Blob Storage, Application Insights, and Serilog.

Frontend Stack: ReactJs, Redux, Angular, Javascript ES6, JQuery, HTML5, Tailwind CSS, BootStrap4.

Misc: Docker, Azure DevOps, Azure Fabric, Microservices, Twilio, EC2, AWS Lambda, Git, Swagger, OAuth 2.0, MYSQL, SQLServer, Mongodb, PostgreSQL, Power BI.

Professional Experience

LOXAM – Leeds ,United Kingdom.
.NET Developer, **May 2024 - Present**

In my current role, I provide .NET support for an existing project, My responsibilities include implementing multithreading techniques to optimise data processing, integrating Azure Service Bus and Cosmos DB, supporting Azure B2C for robust authentication and authorization, and actively developing and enhancing deployment and release pipelines to streamline continuous integration and delivery processes.

Contributions:

- Enhanced API performance by integrating **Service Bus** Trigger Functions for efficient data processing and storage in **Cosmos DB**, and implemented multithreading techniques to improve concurrency
- Contribute the implementation of **Azure B2C** role-based authentication and authorization.
- Implemented caching for various API endpoints, optimising performance and resource management.
- Investigated and resolved **Production Issues**, implementing preventative measures to enhance system stability

Upwork – Remote.
.NET Developer, **August 2019 to May 2024**

Worked as a .NET developer with **Inncrewin Technologies**, **Brilliant Solutions Limited,** and other clients to design and create projects in an agile environment in a measured and open manner. While doing so, I developed robust code with **TDD** for applications for **B2B e-commerce microservice applications** and **form submission workflow applications**.

Contributions:

- Designed and implemented microservices using **Azure Service Fabric** to effectively manage high request volumes. Integrated **RabbitMQ** with **Mass Transit** for robust inter-service communication.
- Developed and integrated payment solutions using **Stripe** and the **PayPal** REST API, specialising in creating intent, capturing, and processing payments efficiently.
- Using **Azure analytics**, design and develop the Hottest of Moment items and Recent Viewed APIs.
- **Layer architecture**, RESTful APIs with C# Swagger UI, MYSQL databases, Azure CI/CD, **JWT role-based** authentication, and **Blob Storage** with SAS tokens are just a few of the backend features that have been effectively implemented.
- Using **.NET 6**, I created REST APIs that integrated with **Twilio** to verify OPT codes.
- Develop an **Azure function** that periodically performs a stored procedure backup of a database table.
- 10% increase in performance was obtained by swapping out **EF Core** for the lightweight ORM **Dapper**, which was improved with the Dapper Contrib extension. This implementation enables the execution of complex queries and produces effective results.

System Limited – Karachi, Pakistan.
Junior .NET Consultant, **Aug 2021 to Jan 2023.**

Worked as a Junior.NET consultant, I was assigned to an outsourcing project for **DP World Dubai** to design and enhance the features of the Cargo Rostering Project in an **agile environment**.

Contributions:

- 10% improvement in API performance was achieved through the use of **Redis cache**, **rate limiting**, **async/await** for asynchronous operations, and optimised **LINQ** queries.
- **Redux** and other integrated state management libraries take care of the application's global, complex states.
- The user confirmation, activation, and notification emails were generated using a generic template that was seamlessly integrated with the **SMTP mail server**.
- Implemented **JWT** authentication in the project with custom role-based access control and developed a Skip Authentication feature that is configurable for testing purposes, enhancing flexibility and testing efficiency.
- Utilised **React's** built-in state management (useState, useEffect) to manage component-level states.
- The process of periodically executing reconciliation APIs was optimised by 20% through the transformation of the **Worker Service** into a Time Trigger **Azure Function**.
- Designed and implemented modular, reusable React components to build the user interface.

TPS Worldwide – Karachi, Pakistan.
Software Engineer, **Feb 2021 to Aug 2021.**

Contributions:

- Established a **linked server** connection to facilitate executing queries and transactions across different databases on separate servers.
- Providing support for the Utility Bill Payment System and IRIS and implementing the Web API using **NodeJs** for the IRIS Bill Payment System.
- Successfully implemented **SOAP** services and **WSDL** for robust web service integration, enhancing system interoperability and communication efficiency

StackFinity – Remote.
.NET Developer, **Aug 2020 to Feb 2021.**

Contributions:

- Implement the integration of the **Google Maps API** into the web application, enabling users to search for places and generate routes from point A to point B.
- Monitored the application's health using **Application Insights** integrated **SendGrid** for notifications and integrated the **Rest APIs** for Azure Blob Storage.

Education & Credentials		
Masters in Computer Science,	Teesside University, Middlesbrough, England,	2023 - 2024.
Bachelors in Computer Science,	FAST University, Karachi,	2016 - 2020.

Awards & Achievements

- Achieved '**Top Rated Freelancer**' status on **Upwork**, recognising consistent excellence in service delivery and client satisfaction.
- Awarded '**Best Team Player**' for the project at **TPS**, honouring outstanding collaboration and contribution to project success.
- Attained '**Level Two Seller**' status on **Fiverr**, reflecting high-quality service and customer satisfaction.