**AKHILESHKUMAR MALVIYA**

**Visa:h1b**

**Local to New Jersey**

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##### EXPERIENCE SUMMARY

* **Over 18 years** of experiencein **designing**, **developing,** and **delivering** applications on **.NET Technologies** with the latest **web application frameworks** and having hands on experience on industry wide used **RDBMS**.
* Experience working with varied industrial clients that include **Syndication Loans,** **Capital Market, Insurance, Treasury Finance, Mortgage Banking, Healthcare, Brokerage Clearing Solutions, Education and Housing.**
* Strong proven experience in **OOAD, OOPS,** Service-Oriented-Architecture **(SOA),** Domain Driven Design **(DDD)** and **Microservices** Design patterns.
* Strong proficiency in developing microservices with frameworks like **ASP.Net Core (C#)**, and **Node.js.**
* Proficient in implementing **OAuth2.0**, **OpenID Connect**, and **JWT-based authentication and authorization** to secure microservices, ensuring robust identity management, token validation, and secure inter-service communication
* Proficient in **Test-Driven Development (TDD)**, leveraging frameworks like **xUnit**, **NUnit**, and **MSTest** to design robust, maintainable, and scalable .NET applications by writing unit tests prior to implementation, ensuring code reliability and adherence to requirements.
* Development focused on web-based and client/server applications using **Angular 7.4,** **AngularJS**, **ASP.NET Core,** **ASP.NET MVC**, j**Query, JavaScript. TypeScript 3.1**
* Skilled in setting up automated build, test, and deployment pipelines using tools like **Azure DevOps**.
* Expertise in design and implementation, using RESTful Services using **MS** **Web API,** **WCF, MVC, MVVM** Pattern**.**
* Hands-on experience in implementing object-relational mapper **(ORM)**using **Entity Framework.**
* Strong Knowledge of **Database designing** concepts and **Data Modelling** and experience in **Query**

**tuning**, **indexing** and **performance optimization** for SQL Server **DDL** & **DML** commands.

* Hands-on experience on different **version control** tools like **GIT**, Team Foundation Server **(TFS)**, Visual SourceSafe **(VSS)**, **Perforce**, Tortoise **SVN** and **CVS**.
* Proficient in creating comprehensive API documentation using tools like **Swagger** (Open API) for clear communication with consumers.
* Extensive experience in using .NET's built-in **Dependency Injection (DI)** framework to manage service lifetimes and ensure testable, decoupled components.
* A **strong team player** and proven record to **leading** a small size team of 5-6 team members.
* Experienced **Scrum** and **Agile team player**, adept at collaborating in cross-functional teams, participating in **sprint planning**, **daily stand-ups**, **backlog grooming**, and retrospectives to deliver high-quality, incremental value in iterative cycles
* Sound knowledge of Application Lifecycle Management (**ALM**) tools such as Microsoft Team Foundation Server (**TFS**) and **JIRA**, including their use for **version control**, **project tracking**, **task management**, and collaboration throughout the development lifecycle.
* Basic knowledge of scripting languages like **VB.NET** for custom SSIS components.
* Expertise in creating and managing **SSIS** packages, including **data flow tasks**, **control flow tasks**, and custom components to implement **ETL logic**.

##### PROJECT EXPERIENCE

**Client: *The New York City Department of Education, Brooklyn, NYC Feb’23 – Till Date***

**Project:** SESIS (<https://sesis.nycenet.edu/userlogin.aspx>) **Role:** Senior .Net Consultant

**Description:** The Special Education Student Information System (SESIS) is a web-based application that assists school staff and related service providers in managing the special education process for students entering kindergarten through age 21. The New York City Department of Education’s (NYCDOE) Office of Special Education Initiatives (OSEI) delivers special education services, administers policies and procedures for over 200,000 New York City (NYC) students with disabilities in both public and non-public school settings. The Special Education Student Information System (SESIS) project is being developed to cater to the above needs of NYDOE as a comprehensive, integrated, web-based system for tracking the relevant, general, and special education information that is accurate and accessible for all levels of staff. Responsible for single handedly maintaining and enhancing the Provider Assignment module of the application.

**Responsibilities:**

* Identify the key domain areas for Provider Assignment and prioritize their design and implementation.
* Use DDD patterns like value objects and domain events to abstract domain logic away from the UI layer, keeping it focused on rendering and interactions using ASP.Net 4.5 & Angular 7.4.
* Design REST APIs around bounded contexts, with each API endpoint clearly tied to a specific domain responsibility (e.g., /providers/assign for Provider Assignment).
* Use DTOs (Data Transfer Objects) to map API responses to Angular models while preserving the integrity of the domain model on the server side.
* Data collection, reporting and project tracking, testing and collaboration of project development.
* Write tests based on domain scenarios provided by stakeholders, ensuring they validate business logic rather than implementation details by mocking dependencies, and isolating the code under test.
* Creating and maintaining SSIS packages, including data source connections, data transformations, and data loading logic.

**Environment:** ASP.NET Core 2.1. .Net 6.0, C# 6.0, Angular 7.4, Typescript, MS SQL Server 2019, SSIS, Visual Studio 2019, MS Azure DevOps, Moq, NUnit.

**Client: *Broadridge Financial Solutions. March’21 to Jan’23.***

**Project:** Ascendis **Role:** Senior .Net Consultant

**Description:** The Ascendis platform from Broadridge Financial Solutions is a brokerage-specific business process management (BPM) suite designed to optimize operations across front, middle, and back offices for broker-dealers and clearing firms. It supports various brokerage activities, including margin, purchase & sales, and corporate actions, with additional modules under development for tasks like new account opening and asset servicing. Ascendis provides open and flexible application programming interfaces (APIs) that allow for the ingestion of data from virtually any third-party back-office system. This enables firms to apply client-defined business processing and routing rules, enhancing operational risk management, lowering costs, and boosting productivity​.

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**Responsibilities:**

* Responsible for creating and maintaining .Net core APIs around bounded contexts, with each API endpoint clearly tied to a specific domain responsibility for new Unqork UI.
* Responsible for writing and maintaining tests prior to design and implementation of a business functionality to align with the business requirements.
* Database modifications and additions to existing and new client databases
* Involved in ongoing production support activities.
* Responsible for maintaining and monitoring periodic SSIS jobs daily.

**Environment:** C# 4.0, ASP.NET 4.5, .Net Core 2.1, .net Web API 2.0, MS SQL Server 2019, MSMQ, SSIS, Visual Studio 2019, Azure DevOps.

**Client: *Department of Housing and Preservation (HPD), Manhattan, NYC. April’18 till Feb. ‘21.***

**Project:** Real Time Field Force (RTFF) **Role:** Senior Programmer Analyst

**Description:** Real Time Field Force (RTFF) is an Android based Mobile application, created for Office of Enforcement and Neighborhood Services (ENS) department to perform their different type of inspections and submit inspection results real time.

**Responsibilities:**

* Design and develop RESTful API for RTFF Application using MS Web API 2.0.
* Responsible for implementing JWT token based secure authentication and authorization.
* Responsible for designing and implementing and centralized logging and notification service.
* Responsible for creating stop assignment functionality as part of Admin Dashboard.

**Environment:** C# 5.0, MS Web API 2.0, Angular 7.4, MS SQL Server 2017, Oracle 11g, Visual Studio 2017, TFS 2015, MS Windows 7.0

**Client: *Broadridge Financial Solutions. July’17 to Mar’18.***

**Project:** Ascendis-ACATS **Role:** Senior .Net Consultant

**Description:** The Ascendis Account Transfer system allows users to create Automated Customer Account Transfers (ACAT) or Non-ACATS transfers.

**Responsibilities:**

* .Net Web UI enhancements and modifications for new Client(s).
* Database modifications and additions to existing ACATS database.

**Environment:** C# 4.0, ASP.NET 4.5, WCF Services, jQuery, MS SQL Server 2014, MSMQ, Visual Studio 2017, TFS 2017, MS Windows 7.0

**Client: *Department of Housing and Preservation (HPD), Manhattan, NYC. Nov’15 till June’17.***

**Project:** Tax Credits **Role:** Senior Programmer Analyst

**Description:** HPD allocates a portion of the State of New York's federal Low-Income Housing Tax Credit allotment - both nine (9) % competitive credits and four (4) % "as-of-right" credits. As part of Tax Credits application, applicants submit their application on Internet portal whereas allocation happens on Intranet Admin module.

**Responsibilities:**

* Design and develop Admin module Credits application architecture using AngularJS framework.
* Enhance application for better user experience and optimize the performance in internet portal.

**Environment:** C# 4.0, AngularJS v1.4, ASP.NET MVC Web API 4.5, WCF Services, jQuery, Oracle 11g, Visual Studio 2013, TFS 2013, MS Windows 7.0

**Client: *The New York City Department of Education, Brooklyn, NYC Feb’15 till Nov’15***

**Project:** Galaxy (<https://mygalaxy.nycenet.edu> ) **Role:** Senior .Net Consultant

**Description:** Galaxy is a centralized portal for managing the budget assigned by Central Budget Office or school budget office. It helps school administration to maximize their resources, plan their budget and comply with the federal, state and other regulations.

**Responsibilities:**

* To analyze and understand the business functions of Galaxy.
* Architect and redesign the new Galaxy Catalog system using latest Microsoft technologies.
* Develop content Views and Layouts using Razor View engine in ASP.NET MVC 4.5 and C# 4.0 technology.

**Environment:** C# 4.0, ASP.NET MVC 4.5, WCF Services, JavaScript, jQuery, MS SQL Server 2012R2, Visual Studio 2013, TFS 2013, MS Windows 7.0

**Client: *FIS (Fidelity National Information Services) Feb’14 to Feb’15***

**Project:** SyndTrak ([www.SyndTrak.com](http://www.syndtrak.com/)) **Role:** Senior .Net Developer

**Description:** SyndTrak is a front-office syndicated loan software system that facilitates powerful data exchange among all market participants.

**Responsibilities:**

* Develop C#.Net web application for integrating LendAmend functionality within Syndtrak.
* Created and implemented stored procedures, views, and queries using MS SQL Server 2008 R2.

**Environment:** C# 4.0, ASP.NET 3.5, CodeSmith .NetTiers ,WCF Services, Unity 2.0, jQuery, MS SQL Server 2008 R2, VS.NET 2013, MS Windows 7.0

**Client*: Laven Partners Oct’13 to Feb ‘14***

**Project:** Laven Partners Due Diligence Manager **Role:** Tech Lead

**Description:** The Independent Process of Operational Due Diligence Report (IPODD) is a proprietary report produced by Laven Partners. The IPODD Report provides clients with the results of Laven’s operational due diligence review of any hedge fund, private equity fund or real estate fund.

**Responsibilities:**

* Involved in application architecting and database modelling.
* Estimating the project effort and planning tasks for team members.
* Involved in UAT coordination and Client Sign offs.

**Environment:** C# 4.0, ASP.NET MVC 4.5, ADO.NET Entity Data Model 6.0, Unity 2.0, jQuery, MySQL, VS.NET 2010, MS Windows 7.0

**Client: *Broadridge Financial Solutions, NJ, USA Jan’12 to Sep ‘13***

**Project**: Cash Management **Role:** .Net Consultant

**Description:** Ascendis Cash Management creates a seamless, straight-through process from request capture through fulfillment. It enables input through browser entry, batch files, or integration with the portals through real-time APIs. It supports EDI 820 real-time integration with leading banks for clearing, confirmation, and read-back reporting for Fed wires, as well as integration with laser check printing vendors.

**Responsibilities:**

* Designed and developed Cash API services for request creation using WCF 3.5.

**Environment:** C# 3.5, WCF 3.5, Unity 2.0, MS SQL Server 2008, VS.NET 2010, MS Windows 7.0

**Client: *CIBC World Markets, NY Jan’11 to Dec ‘11***

**Project:** \*Multiple Projects **Role:** .Net Consultant

**Description**:1) POTUS is the book of record for the USA Strategic Risk – high frequency business for CIBC Wholesale banking that houses the necessary functionality required for trade support and middle office activities. 2) Eagle Eye enables Risk WB to view wholesale bank positions, portfolios, and transactions in one system and independently view the activities of the business from a “portfolio management” perspective.

**Responsibilities:**

* Wrote migrating utility for migrating data from Sybase DB to MS SQL Server DB.
* Implemented the SSIS for retrieving the feed data from three different RISK sources.

**Environment:** C#, WCF, Sybase, WPF, MS SQL Server 2008, TIBCO Spot Fire 3.0, Visual Studio.NET 2005/2008, MS Windows XP

**Client: *Alterra Capital Group, NJ (Markel Corporation) Dec’08 to Dec ‘10***

**Project:** e2 Underwriting Platform **Role:** Team Lead

**Description:** Alterra Capital Group Ltd. and its operating insurance/ reinsurance companies have strong underwriting and operating performance, a strong competitive position as a diversified specialty insurance and reinsurance company and strong enterprise risk management. e2 is a web-based application, which is primarily reengineering of existing insurance underwriting application that was built using Delphi. e2 Underwriting application is an ASP.NET application with modules in Silverlight that covers the entire insurance policy lifecycle.

**Responsibilities:**

* Responsible for designing and developing and maintaining the Schedule Management module using MVVM architecture with PRISM and Silverlight 4.0

**Environment:** C#, ASP.NET, Silverlight 4.0, PRISM, Unity 2.0, WCF, WPF, MS SQL Server 2008, Entity Framework 3.5, Visual Studio.NET 2005/ 2008, MS Windows XP

**Client: *Wells Fargo Bank - National Association, Charlotte, NC, USA Aug’07 to Nov ‘08***

**Project:** \*Multiple Projects **Role:** Team Lead

**Description:** 1) Central Investment Banking Technology (CIBT) web portals are the SharePoint portals, which are used by Central Investment banking personals, including the business users and the IT division. It comprises of the support to all the SharePoint portals built on MOSS platform. 2) Wires automation is designed to facilitate the processing of intra-day trades/ maturities and coupon payments that follow throughout the day. 3) Bank Funding Efficiency Dashboard (BFED) application is designed to facilitate the daily monitoring activities of front office and back office for Treasury department by automating the prior manual process.

**Responsibilities:**

* Created the web parts for CIBT portals and set up team sites for different groups inside CIBT.
* Developed Wire Blotter.
* Wrote stored procedure and user defined functions for the application.
* Implemented JavaScript for client calculations throughout the application.
* Involved in coding and debugging of EPN activity screen.

**Environment:** C#, MS SQL Server 2005, ADO.NET, MOSS 2007, Visual Studio.NET 2005.

**Client: *The Impac Companies (IWLG), Irvine, CA May’06 to Jul ‘07***

**Project:** Impac Warehouse Intelligent Lending (IWiL) **Role:** Senior Software Engineer

**Description:** IWLG is a warehouse lending group involved in mortgage industry. The application a .NET-based Windows application, which is primarily designed to automate the operation carried out warehouse lending in secondary market and was reengineering of the classic VB 6.0 application into .NET 2005 environment. As part of this project, old denormalized database was deprecated and new database created with same database behavior to support legacy VB6 application till new .Net application is ready and functional in production.

**Responsibilities:**

* Used Microsoft Enterprise Library’s data access block and error handling block
* Created GUIs using C# and .NET IDE
* Involved in writing backward compatibility objects for letting the classical stored procedures run on

new MS SQL Server 2005 database

* Wrote SSIS for migration of existing data from MS SQL Server 6.5 to MS SQL Server 2005

**Environment:** C#, MS SQL Server 2005/ 2000, ADO.NET, Visual Studio.NET 2005, MS Windows XP

**Client: *Xerimis Inc., NJ Dec’05 to May’06***

**Project:** Xerimis-ICS **Role:** Software Engineer

**Description:** Xerimis Inc. is a contract packager and distributor of clinical supplies. Xerimis’ clients are pharmaceutical and biotech companies that are seeking Food and Drug Administration (FDA) approval for a drug product via clinical trials. Xerimis produces finished patient supplies from the clinical supplies received from the clients and later it is distributed to clinical sites. Clinical sites may return the used supplies for accountability or destruction. QA/ QC processes must provide authorization before Xerimis executes any step.

**Responsibilities:**

* Involved in coding and bug fixing for .Net windows application
* Wrote stored procedures

**Environment:** C#, MS SQL Server 2005, ADO.NET, Visual Studio.NET 2005, MS Windows XP