**VIVEK KUMAR SINGH**

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**Home - Mahwah, NJ – 07430**

**Work – NJ/NY**

**Work Authorization/Visa Status – Citizen**



**SUMMARY:**

* Full Stack developer with more than 20 years of Professional IT experience in Web/Windows Application, Services, Software Architecture, Data Modeling and Design Patterns.
* Extensive working knowledge of financial application and FIX protocol.
* 15+ Years of experience as Technical Lead/Architect in both onsite and onsite/offshore team.
* Strong technical abilities in creating database-enabled Internet/Intranet/Desktop applications using various languages and platforms
* Expertise in Microsoft.NET framework, C#, .Net Core 2-3/6, Java, Spring Framework, OAuth2, OPenID, Visual C++, MSMQ, IBM MQ, Kafka, VB.NET, ASP.Net, WPF, Silverlight, Win-Forms, Restful API, WCF, MVC, MVVM, MS Sql, T-Sql.Oracle, JavaScript, JQuery, Ajax, KnockOut, angularjs, Angular 2-17, TypeScript.
* Strong OOPS concept, designed and developed application using Design Patterns, EF Code/Data First, LINQ to SQL, LINQ to Entity, Asynchronous process, TASK, TPL, Threading, Serialization/Deserialization, Reflection, .NET remoting, TDD (Test Driven Development), Microsoft Application Blocks.

**SKILLS:**

**Web:** ASP.Net, MVC, .Net Core 2-3/6, .Net Framework, RESTful API, Java, Spring Framework, IBM API Connect, Angularjs, Angular2/17, TypeScript, Karma, Selenium, Knockout, jQuery, JavaScript, ES6, JSON, Bootstrap, CSS3, HTML5, LESS, KendoUI, Infragistics, Ajax, Classic- ASP, VB-Script, Silverlight, MVVM, XML, XSLT, WCF, Web Services, SOAP.

**Desktop/**

**Windows:** WPF, MVVM, Prism, Win-Forms, Window Services, Visual C++, Task-Scheduler, MSMQ.

**Database:** MS Sql 2019 and earlier, T-Sql, Stored-Proc, Views, Function, Triggers, Oracle, SSRS, SSIS, DTS Package.

**ORM:** Entity Framework, Fluent API, NHibernate, HQL, Java Spring JPA, Criteria API, Code First, Data First, CodeSmith.

**Design Patterns**

**& Principals:** Decorator, Singleton, Façade, Factory, Abstract Factory, Observer, Template, MVC, MVVM, IOC, DI, Unity, Repository, Specification, Unitofwork, SOLID, DRY, Single Responsibility.

**Unit-Testing:** NUNIT, VSTest, NCOVER, JASMINE, KARMA, Selenium, Protractor.

**Source Control**

**& Tools:** GitLab, GitHub, Bitbucket, TFS, SourceTree, Git-Bash, SVN, Perforce, VSS.

**Methodology**

**& Tools:** Agile, Waterfall, Scrum, JIRA, Confluence, UML, RUP, Visio, ERWin.

**CI/CD:**  Jenkins, ClickOnce, GitLab.

**Tools:** Serilog, Elmah, log4net, HP Fortify, Re-Sharper, IBM API Connect, AutoMapper, Spreadsheet Gear, Interactive Softworks, QUARTZ Scheduler, Swagger, sonar, blackduck scan, Internal Cloud, Docker.

**Vendor**

**Application:** Interwoven (IManage, API), IBM API Connect, CapitalIQ Web services, ZL-Tech.

**EXPERIENCE:**

**BNY-Mellon, NJ/NY May 2020 – Till Date**

**Vice President of Software Development**

**Fund Pricing System**

**Responsibilities:**

* Worked on maintenance and enhancement of the application.
* Writing data access using EF, Fluent API.
* Created Microservice.
* Created nuget package for common functionality.
* Created logging framework using Serilog.
* Written RESTful API for the application.
* Creating Swagger for RESTful API.
* Writing Angular Component, Directive, Routing, Services, Pipes, Subject, rxjs

**Environment:** .Net Core 6.0, c#, Java, Spring Framework , OAuth2, OPenID, Window Services, MSMQ/IBMMQ/RabbitMQ/Kafka, Web Application (Angular 17). rxjs , FIX, MS Sql 2019, EF – Code First, RESTful API, CSS3, HTML5, xunit, moq, Serilog, Jenkins, Karma, Selenium, GitLab, Jira, AppEngine(Internal Cloud), Docker.

**Jefferies NYC, NY Feb 2019 – May 2020**

**Equities Developer**

**JDOE – OMS**

**Responsibilities:**

* Worked on maintenance and enhancement of the application.
* Worked on OMS.
* Creating new manual order in the system and routing it to various sources for trade e.g. Exchange, Algo, Fidessa.
* Creating manual Basket order in the system and executing it in a batch wave where traders can drive the frequency and size of trade.
* Creating electronic order from drop-copy received as FIX messages from external sources.
* Updating the risk position when trade drop-copy is received as a FIX message from an external source.
* Writing data access using EF, Fluent API.
* Writing RESTful API for the application.
* Creating Swagger for RESTful API.
* Writing Angular Component, Directive, Routing, Services, Pipes, Subject, ngrx/store
* Working on Bootstrap to layout the page for responsive design.
* Writing Unit test using karma and e2e testing in protractor.

**Environment:** .Net Core, c#, Visual C++ Window Services, C# Window Services, .Net Web Form, WPF, MSMQ, Web Application (Angular 8) , FIX, Fidessa, MS Sql 2016, EF6.0 – Code First, RESTful API, CSS3, HTML5, nunit, moq, karma, protractor, log4net, elmah, Jenkins, bitbucket, Jira, IIS.

**KPMG Montvale, NJ Oct 2013 – Feb 2019**

**Sr. .Net Consultant**

**Projects:**

**Audit Manager 4.0 – Web Application (Angular 6)**

**SSC Web Admin 2.0 – Web Application (Angular 4)**

**Universal Group Admin – Web Application (Angular 2)**

**IM RESTful API – REST Services**

**SSC Web Admin – Web Application (Asp.Net – MVC, angularjs)**

**Audit Manager 2.0 – Web Application (Asp.Net – MVC, Knockout)**

**SSC-TechClient – Desktop (WPF)**

**Clara, KAAP, LFTT, Provisioning – Windows Services/Task-Scheduler**

**Responsibilities:**

* As a full stack developer, I was involved in end to end implementation of the application.
* Designed/Architect the Application, Data Model EF Code First and set up the ALM for the project.
* Designed data access using EF, Fluent API.
* Designed the C# classes and structured the layout for the application.
* Written RESTful API for the application.
* Create Swagger for RESTful API.
* Written Angular Component, Directive, Routing, Services, Pipes, Subject, ngrx/store
* Worked on Bootstrap to layout the page for responsive design.
* Written Unit test using karma and e2e testing in protractor.
* Created task-scheduler for Large File movement (LFTT, KAAP).
* Created Custom Directives, Custom Filters, $http Interceptors, $q Promise, Services and Providers.
* Migrated Audit Manager (V 2.0) a Silverlight app to KO SPA architecture.
* Worked on HTML5/DHTML, CSS3, jQuery, JavaScript for designing the web pages
* Written RESTful API wrapper for IManage com based api
* Implemented and extended ELMAH as per the application need for more robust error handling.
* Worked on kendo UI, KO model, amplify.
* Manage the project delivery by providing status reports, test plans and delivery plans to the client.
* Providing design guidelines and architecture guidelines to the team.
* Created Path in IBM Api Connect, Creating Product and Subscription.

**Environment:** .Net Core, C#, Angular 2/4/6, Kendo UI, MVC 5.0, Knockout, MS Sql 2016, EF6.0 – Code First, RESTful API, IBM API Connect, bootstrap, CSS3, HTML5, jQuery, underscore.js, amplify, nunit, moq, karma, protractor, VSTest, log4net, elmah, fortify, Jenkins, bitbucket, Jira, IIS, IManage (Interwoven), ClickOnce.

**ISO Veririsk Analytics, Jersey City, NJ Dec 2011 – Oct 2013**

**Sr. Software Eng.**

**HCI (Nucleus) – Web Application (Asp.Net – MVC)**

**Responsibilities:**

* Designed classes and written Data access framework.
* Involved in writing business logic for the application.
* Written window services, Cron Jobs Scheduler
* Involved in writing Oracle stored procedure, function, triggers, views, creating tables, indexes
* Written NUNIT test for the application.
* Manage the project delivery by providing status reports, metrics, test plans and delivery plans to the client.

**Environment:** .Net Framework 4.0, ASP.Net, MVC, c#, KendoUI, jQuery, Ajax, Oracle, SVN, NUNIT, NCOVER, Re-Sharper, QUARTZ.

**Credent Business Solutions Inc. Jul 2008 – Nov 2011**

**Client: Northpoint Financial Services, New York, NY**

**Programmer Analyst**

PRP (Permian Research Portal) – Web Application (Silverlight), CapitalIQ Web Services.

PRP – Admin - Desktop (WPF)

**Responsibilities:**

* Designed classes and written Data access framework.
* Written window services to do polling to the CapIQ web services for any new document.
* Involved in writing business logic for the application.
* Involved in writing SQL stored procedure, function, triggers, views, creating tables, indexes
* Written WCF layer for the application.
* Written WPF application for admin and configuration
* Written NUNIT test for the application.

**Environment:** .Net Framework 4.0, C#, WCF, WPF, SQL-Server 2008, NUNIT, NCOVER, SVN, Re-Sharper, Window Services, Silverlight 4.0, CapitalIQ web services, Markets.com.

**Client – Kaplan, New York, NY**

**USMLE – Web Application (ASP.Net – MVC, Flex)**

**Responsibilities:**

* Designed classes and written Data access framework.
* Involved in writing business logic for the application.
* Involved in writing SQL stored procedure, function, triggers, views, creating tables, indexes
* Since this is a high traffic user interactive site, identifying the code taking longer duration and putting that part in an asynchronous process and optimizing the code.
* Written WCF layer for the application.
* Written user interactive web pages using AJAX – Extended pop-up control, AutoComplete Textbox, Mask Editor control etc.
* Written NUNIT test for the application.

**Environment:** .Net Framework 4.0, Asp.Net, MVC 3.0, C#, WCF, jQuery, JavaScript, Ajax, Flex, SQL-Server 2008, NUNIT, NCOVER, Re-Sharper, Perforce, Ghost, Window Services.

**Client - Tranzact, Fort Lee, NJ**

**DIRECTV-CSR Credit – Web Application (ASP.Net)**

**Connected Home – Web Application (ASP.Net)**

**Environment:** .Net Framework 3.5, Asp.Net, C#, Web Services, jQuery, JavaScript, Ajax, SQL-Server 2008, NUNIT, NCOVER, Re-Sharper, MS VSS, Window Services, Interactive Softworks.

**TATA Consultancy Services. Oct 2004 – Jun 2008**

**IT Analyst.**

**DK Partners - Financials (Hedge fund), Manhattan, NY**

Arbitrage Equity Position/ LTD\_PNL/ Monthly Short Rebate Deal level/ Investment Level

* These reports are built using Sql Server reporting services and Spreadsheet Gear, a third-party tool.

**Arbitrage Equity Position**

* This report shows the corporate action on deal value greater than 10MM – This report is developed using spreadsheet gear api.

**LTD\_PNL –** This report shows Life to Date Profit and Loss report at the deal/Investment/Fund and Manager level.

**Responsibilities:**

* Written the reports using sql server reporting services, Spreadsheet Gear, C# code and Sql Stored procedure.
* Providing production support includes enhancement, modification, fine tuning sql query

**Environment:** Sql Server 2005 reporting services, C#, Spreadsheet Gear

**Data Access Layer**

**Environment:** C#, SQL-Server 2005, ASP.NET, MS Visio, MS VSS, AJAX, CSS, HTML/DHTML, JavaScript Windows Form, .Net Framework 3.5, LINQ, WCF, Visual Studio 2008

**Arden AssetMgmt - Financials (Hedge fund), Manhattan, NY**

**Structured Product**

**Responsibilities:**

* Mostly involved in providing production support, change/enhancement.
* Worked in writing business logic after going through the project specs.
* Involved in Software development cycle from User requirements to design, development, testing, deployment and production support.
* Developed the applications using VS.Net 2005 in C# and ASP.Net and ADO.NET and Sql Server2005
* Worked on HTML/DHTML, CSS and JavaScript for designing the web pages
* Written web services

**Environment:** C#, ASP.NET, Microsoft Enterprise Library, MS Visio, MS VSS, SQL-Server 2005, AJAX, Web Services, HTML/DHTML, CSS, JavaScript

**Client - CIGNA, Hartford, CT**

**HiScore – Survey**

**Environment:** C#, ASP.NET, ADO.NET, CSLA, SQL-Server 2000, DB2, AJAX, HTML/DHTML, CSS, JavaScript

**CCH Legal Information Services Inc - A Wolters Kluwer Company, USA – Offshore Team (India)**

* RSA – Real-time State Automation

**Environment:** C#, ASP.NET, Xml/XSLT, JavaScript, MS SQL 2000, Microsoft Visio 2000

**Intel, Portland USA – Offshore Team (India)**

* PSA
* Project Scope Application

**Environment:** C#, ASP.NET, XML/XSLT, JavaScript, DHTML/HTML, MS SQL 2000, Microsoft Visio 2000, ERWin

**HCL Technologies, India. May 2000 – Oct 2004**

**Software Analyst.**

Cross-Country, Canada – Offshore Team (India)

Cross-Country Automation Services

**Environment:** ASP, VB, ASP.Net, C#, XML/XSLT, DHTML/HTML, CSS, JavaScript SQL SERVER 2000, Oracle, Rational Rose

**EDUCATION & TRAINING:**

* Post-Graduation Diploma in Advanced Computing (DAC) from C-DAC, Silverline Institute of Software Technology, Thane, (Mumbai)
* Bachelor of Engineering – Amravati University (Maharashtra), India