**SUMMARY**

* 10+ years of software engineering experience with core expertise in all aspects of object-oriented design and development in Microsoft platform with 4+ years as Lead experience.
* Expertise in designing, and developing highly scalable, extensible, and maintainable software products and enterprise applications from the ground up.
* Migrating existing applications to take advantage of newer/better technologies and platforms.
* Experience working in **C#**, **Web Forms, Win Forms, WPF, PRISM Framework, MEF, JSON** and **NLOG**.
* Experience working in .**NET Framework, PRISM, ASP.NET** - developing Web Forms using ASP.NET, LINQ and Lambda Expressions.
* Expert in designing UI using **MVC, C#, JavaScript, jQuery, Angular 6/CLI, XML, XSL, HTML and DHTML.**
* In-depth knowledge in **WCF, Web API, SOAP and Web Services**.
* Strong experience in **SQL Server Database** design, Database maintenance, developing queries, stored procedures, views, functions, cursors and triggers using SQL Server.
* Worked extensively with Data Adapter, Dataset, Data reader as a part of ADO.NET to access and update database.
* Experience in development of web parts, Fast Search, Enterprise search, Web Content Management, Workflows and InfoPath forms in SharePoint Server.
* Experience in **Azure Development, Azure DevOps, Microservices** and Distributed System Designs.
* An analytical thinker and self-starter with business knowledge related the areas of equities, fixed income, security master management, reference data/Index data, data vendor management and market risk measurement.
* In-depth technical knowledge in business report development which covers the full SDLC ranging from business/technical analysis, requirements gathering, design, risk analysis, application development, use cases through to quality assurance and implementation with an agile methodology focus.
* Excellent written and verbal communication, with an outstanding ability to articulate complex problems (& solutions) in simple language.
* Highly motivated, process driven engineer who can learn quickly and adapt to changes rapidly.
* Leading and providing technical direction to development teams.
* Interacting with business users to gather and convert requirements into design and implementation.

**TECHNICAL SKILLS**

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| --- | --- |
| **Languages**   * C#, VB.NET, LINQ, T-SQL, ASP.Net * JavaScript, jQuery, Angular 6/CLI, VBScript   **Databases**   * MS SQL Server 2000/2005/2008/2012/2016 * Oracle, Azure, My SQL, MS Access   **Reporting Tool**   * SSRS, Power BI, Aspose   **Tools**   * VS 2010/12/15/17/19, VSS, TFS * GIT, TeamCity   **Methodologies**  Waterfall, Agile/SCRUM | **Design Patterns**   * MVC, Factory, Abstract Factory, Singleton, MVVM   **Database Connectivity**   * SSIS, ADO.NET, ADO, ODBC, OLEDB   **GUI**   * DevExpress, Infragistics Controls   **Web Programming**   * ASP.NET, Regular Expressions, XML, Web Services * AWS, Web Forms, HTML, DHTML, XML, XSLT, CSS   **Frameworks**   * .NET Framework 1.1/2.0/3.0/4.0/4.8/5.0, .NET Core * WCF, Entity Framework, Remoting, MSMQ, PRISM * Multithreading, Async and Parallel Programming |

**PROFESSIONAL EXPERIENCE**

**Stone Harbor Investment Partners Mar 2016 to Present**

*Senior Software Engineer (with Ana-Data Consulting Inc)* New York City, NY

Contributed to numerous projects over five years that included full application development, architecture advisory, and performance optimization. Collected requirements, designed architecture, prototyped, developed, tested, and deployed solutions.

**Responsibilities:**

* Lead Developer on an in-house application and reporting platform. Provides a one-stop solution for multiple groups such as trade support, operations, risk management and client reporting to perform day-to-day functions including reconciliation, data review, risk reporting and client statements. Built front-end using **C#/Windows Forms, Web Service/Web API (.NET Core)/REST API (.NET Core)** for the middle-tier**,** and **SQL Server** backend**.**
* Improved user experience by modifying existing screens using newer techniques and removing obsolete code and features for modern successor of in-house application using **WPF/Prism/Multithreading/Async/ Parallel Programming.**
* Development of core components and framework, including development of the core libraries, base classes, and controls. The system featured a highly extensible and customizable single or multiple value data chooser with advanced typeahead for custom data sources, column configuration, data groupings, custom or default search algorithms, and ability to save selections as lists for reuse across multiple screens. Other features included support for component-based serialization/deserialization of user-entered values and save/restore functions. Built-in filter support for stored procedures or SQL queries, relative dates (today, month end, etc.), and Boolean search.
* Built a **model portfolio** simulation application that allows portfolio managers and analysts to enter hypothetical trades. Application allowed adding bonds from catalogs and calculated real time risk measures such as interest rate risk, spread duration and yield to worst among other fixed income attributes.
* Developed a regression module that allows analysts to define variables and time span. Supported variable were categorized as index level, spread or yield measures. User interface was designed to provide flexibility for the span and variable units to be normalized.
* Implemented a proprietary system where Emerging Market Fixed Income team managed their notes on countries. Module allowed sophisticated note taking and integrated with Sustainalytics **ESG REST API**. Module also supported visualization of proprietary economic data using **Microsoft Power BI**.
* Optimized and supported multibillion position datasets by utilizing database partition and protobuf compression to return up to 1 million rows back to the front end.
* Imported various market data from data vendors and stored it internally using **Bloomberg API**.
* Periodic simulation and testing of disaster recovery procedures for the firm’s application and infrastructure which includes full understanding of the entire production environment.

**Technologies:**  .NET Core, WPF, Prism, WCF, JSON, C#, SQL, SQL Server, MEF, NLOG, SQL Server Temporal Tables, Regex

**TechnoBees Solutions India Private Limited May 2011 – Mar 2016**

*Software Engineer/Software Consultant (with Ana-Data Consulting Inc)* Chennai - India

Built a complete Multi-specialty hospital information and management system ([**Nalam+**](http://nalamplus.com/index.php)) that handles complete operations of hospital using C#/Windows Forms/DevExpress/WCF/MySQL/Oracle.

**Responsibilities:**

* Built components that communicated with external devices such as Biometric fingerprint, X-Ray, Scan machines and Short Messaging Service systems.
* Responsible for implementing the right solutions with respective stack for the various financial client’s projects such as:

**Client: MFA Financial Inc. NY.**

**HR Performance**

A web application which manages employee details and captures employee objectives, mid-year review and year-end review. Workflow between employee to manager and notifies HR.

**Credit Review**

SmartClient PRISM based Windows application which allows investment team to upload and report on Credit Reserve data at bond level. Attributes captured and reported are bond no, collateral type, %IO, IO Term, LTV, Current IRR, Amortized Cost Price, MFA month end mark, Final Credit Reserve etc.,

**Aggie**

WPF application uses Bing (ThinkGeo) maps. Load Monthly HPI, YOY prices, report and map the data by state, County and Zipcode.

**Technologies**: Asp .Net, WPF, DevExpress, ThinkGeo maps, SSRS, SQL Server 2008, JavaScript, HTML, DHTML, CSS

**Client: Bank of Montreal - Bond Trading System**

A web-based platform, that enhanced client experience by providing a single browser-based interface to view offerings, place and manage orders, negotiate price and view/download trade confirmation for the Structured Notes products.

**Technologies**: Asp .Net MVC4, Angular JS, Entity Framework, SQL Server

**EDUCATION**

* Bachelor of Engineering in Information Technology - Annamalai University, India
* Master of Business Administration in Financial Management - Annamalai University, India

**Certifications:**

* Microsoft Certified Solutions Developer: App Builder
* Microsoft® Certified Solutions Associate: Web Applications (Charter Member)