

**Software Engineer / Development Architect & Consultant**

Assist companies with architecture and implementation of web-based and desktop .NET applications. Provide project mentoring and development of database solutions using Visual Studio .NET, SQL Server, and Reporting. Serving clients in software application design since 1989.

Technical Skills Summary

ASP.NET Web Development
Web Services
C#
Visual Basic .NET
SQL Server
T-SQL
COM Interop
Microsoft .NET Framework

Smart Client Desktop Development
WCF
Mobile Development
XML
Visual Studio
ADO.NET
.NET Threading
JavaScript

Expertise

Microsoft .NET Framework A leading contributor in the .NET community and forerunner in the development of .NET applications for businesses.

SQL Server Significant expertise in use of SQL as back-end to database applications.

- Certified Public Accountant (C.P.A.)
- Microsoft C# / .NET MVP for over 13 years.
- Engineering .NET business applications software and providing mentoring/consulting services to small, medium and large size companies.
- Worked with various teams at Microsoft designing systems to streamline their deadlines to RTM.
- Author of numerous .NET whitepapers for Microsoft and other publishers as well as a speaker at many developer conferences and user groups.
- Sit on Microsoft's .NET Advisory Council – a small group of 35 people world-wide that helps to decide the future features of .NET.

Significant Projects

Smart Client and Web-based System for Large Insurance Company. This .NET project provides the entire infrastructure for the insurance company to rate and renew all policies. The program provides the correspondence with the customer and all required paperwork for each state. Using WinForm smart client architecture, the project provides the ability to have agents work online/offline from their home office, providing better customer support. Their entire website is rewritten to use ASP.NET technology, providing the ability for customers and outside agents to rate and get policy information. The project included creating all the stored procedures written in T-SQL for data access and updating to multiple SQL Server databases and syncing with offline transactions. ADO.NET was used to access the stored procedures and provide the data to the Business Objects. Reporting was done using Crystal Reports. This was a two and a half year project to complete.

Web-based System for a Medical Registry Organization. This ASP.NET project created Web Services to interface with a large number of hospitals' heterogeneous database systems. Worked with each hospital development staff to provide expertise with analyzing the integrating the data with their systems. Setup reporting as needed for each system.

Web-based System for World-Wide Learning Management System. This ASP.NET project using Mere Mortals Framework is a conversion from a classic Visual Basic desktop application. This project uses localization to allow the application to be used in 60 different countries world-wide. The data is stored in SQL Server and accessed via stored procedures. Business Objects are utilized to provide all functionality for accessing and updating the tables. SQL Server Reporting is used to provide all the reports used in the system.

Desktop Based Time Management System for the Department of Defense. This WinForm project written in VB .NET provides a time management system for 8000 employees at a nuclear site. The project included creating all the stored procedures written in T-SQL for data access and updating to multiple SQL Server databases. ADO.NET was used to access the stored procedures and provide the data to the Business Objects. Reporting was done using Crystal Reports. This project also interfaced, using XML, with PeopleSoft software which provides all the accounting needs of the department. This was a one year project to complete.

Web Based Forms Management System for a large international machinery company. This ASP.NET project written in C# allows form entry for 3500 dealers across North America via the internet to an equipment service database stored at the company's home office location. It provides data entry and management of all forms used. It includes security, updating of current form changes, robust data entry logic and error correction. Stored procedures were created using T-SQL and access within the Business Object classes use ADO.NET. XML Web Services were used to interface with existing financial applications. Incorporates Adobe Acrobat for .pdf forms generation and Crystal Reports for internal reporting. This project took eight months to complete.

Management System for multi-district schools in a North-Eastern State. This suite of WinForm and WebForm projects written in C# provided management and information for parents, schools, and school districts state wide. The usage of the site averages 5000 concurrent users. Prenia provided architectural expertise, project management, training of entire development staff, and development for complex features. .NET Remoting was setup and used to access data and batch the running of large reports. Incorporates Crystal Reports for reporting. The projects took two years to complete.

Web Based Registrations of Camps for a Large University. This ASP.NET project, written in VB .NET, was designed and developed by Prenia to provide online registrations for all camps provided by the university. The application uses XML Web Services to provide interfaces with other institutions. Windows Server 2003 was used to host the site, providing better security and isolation of the web site. The project is in final beta and will have taken 6 months to complete.

Sales and Inventory Tracking Application for Mobile Devices. An ASP.NET Mobile Controls application was written in C# and used to extend an existing desktop application to provide information to managers remotely on internet-enabled devices. The data is stored in SQL Server. ADO.NET was used to extract data from the database. The project took four weeks to complete.

Integration of Contact Management Software for a Magazine Subscription Company. This project added a Contact Management Software (Goldmine) into the C# and VB .NET WinForm application previously written by Prenia for this client. A renewals module was written using WinForms and with the use of .NET Threading and COM Interop, updated information in the Goldmine contact management.

Agency Management System for an Insurance Company. This WinForm project maintains all significant activity within the company; including policy tracking, reporting and complex commission structure calculations. Data is stored in SQL Server. Stored procedures were created that allowed data access via ADO.NET. Complex reporting is handled by integrating Crystal Reports. This was a 24 month project.

Data Analysis System for a Nation-wide Pawn Corporation. An interesting industry with management that requires extensive and detailed reporting and analysis. An application was written to provide data retrieval from 26 national stores required on a nightly basis; with reports created based on that data retrieved that provides for the analysis to be performed for long-term management decisions. Reporting is accomplished utilizing Crystal Reports. This was a nine month project with significant report modification requests.

Insurance Claims Application. This application processes all claims for the company. It was necessary to interface with AS/400 for retrieval of data from another application. Data is then stored in SQL Server. Crystal Reports is used for reporting. This was a five month project including data conversion to include past policy significant dates.

Check-writing and Invoicing Add-on to Platinum Accounting System. In this application, the client needed a more sophisticated Check-writing and Invoicing module than existed in the Platinum Accounting System. The Btrieve data is extracted and updated, then stored for the add-on program to process invoices and write checks. A four month project.

Policy Issuance and Form Generation Application. This program is used by a large insurance company to store and print policy information for new clients and renewals. The front-end of the application is written in Visual FoxPro and interfaces with the data stored in SQL Server. The application takes advantage of accessing the data using pass-through and remote views via ODBC. There are approximately 35 users that actively use the application on a regular basis. Development time was nine months.

Order Entry System for a Magazine Subscription Company. Originally wrote the application in FoxPro for DOS. Ten years later the application was completely re-written to provide user interface enhancements and upsized to use SQL Server for the back end data storage. The application executes SQL Server commands by using pass-through logic. This allowed for maximum efficiency and speed of processing. The reporting portion of the application uses Crystal Reports and ODBC to access the data tables.

Rating Program for Policy Issuance. The same insurance company listed above had a need to perform rating schedules to perform underwriting functions for Policy Issuance. These functions were previously performed in sophisticated Lotus spreadsheets. The application combines the powerful features of Excel for complicated calculations. The data is stored in SQL Server and uses compiled SQL statements stored in SQL Server for faster data retrieval. The project was written in the estimated time frame of eight months.

Document Storage and Retrieval Application. The purpose of the application is to allow the user to input information about sets of papers (bundles) to scan for future retrieval. Storage of the data and image pointers is in SQL Server.. The project took six months to complete and is being used by five different departments to reduce paperwork.

Accounting Application for a Manufacturing Company. The application includes a General Ledger, Accounts Payable, Accounts Receivable, Order Entry, Purchase Order, Job Cost, and Payroll modules. The entire project is custom written for the client. Unique needs prohibited the possibility of altering an existing package. The user interface is written in Visual FoxPro with interfaces with Word and Excel. The data is stored in SQL Server and is accessed using pass-through and remote views via ODBC. The project took 18 months to complete and ongoing modifications are made due to changes in client needs and changes in State and Federal laws.

Shipping Manifest Software. Designed, developed and nationally distributed a shipping manifest software. The software created UPS manifests and integrated a weight scale requiring the development of scale communication software working through the rs232 port. This software assisted in the creation of UPS Online Software, by United Parcel Service, currently used by their customers.