Ferrell Carr

Home – 979 849 3624 Cell - 832 483 5548

EDUCATION

Brazosport College AAS in Computer Engineering

University of Houston in Clear Lake City BS in Computer Science

SUMMARY

Work for large corporations in Houston and surrounding areas developing Oracle and SQL Server graphical user interfaces. Have solid skill set in ASP.Net web applications using HTML5, CSS, ASP, and C #, JavaScript, J Query, MVC and VBScript. Have experience developing WPF and Silverlight applications featuring MVC and MVVM design patterns.

Have Oracle and SQL Server DBA experience. Also Server and IIS administration and configuration experience. Have BI tool experience. Have SharePoint Site and development experience. Use database tools like SQL Server Management Studio or Toad to execute SQL statements and resolve data issues in the database. Create triggers and jobs to monitor and resolve data problems.

EXPERIENCE

Kappro Services – La Porte, Texas 3/2014 to Now

.Net Developer / JavaScript / Architect / SQL Server

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| --- | --- |
| * Visual Studio 2003 – 2013.3 * Team Foundation Server 2010, 2013 * IIS 6,7,8 * Polymer, Web Components, AngularJS, Ember, Durandal, Hot Towel, Yeoman, Grunt, Bower, Knockout * Html 5, JavaScript, JQuery, * CSS, Bootstrap * Node.js, git, Batarang, Mongo, Document * Firebase, Razor | * WPF, Silverlight, MVVM and Prism * SQL Server 2012 Administration * .Net Framework 2, 3.5, 4, 4.5 * Web API, MVC, Web Forms, WCF * Store Procedures, ADO.Net, Entity Framework, * Promise, API, JSON, REST, OData * C#.Net, Asp.Net, ASP * Windows Azure, Cloud Servers |

Build a construction project management application using ASP.Net and SQL Server. Set up a Windows Server, SQL Server 2012, IIS configuration, Visual Studio 2013, and Team Foundation Service. Architect a team environment for the ASP.Net web application. Make changes to update the application to use HTML 5 and CSS 3. Architect the structure of the web pages, the session data, the stored procedures, the SQL Server connections and the code for the CRUD operation. Provide architecture to support data validation. Crafted the CSS to support the web site and architect the menu system and supporting functions.

Angular is a JavaScript framework good for developing HTML based web applications utilizing directives, CSS, bootstrap and 2-way data binding. Angular provides its own directives but custom ones can be built. Angular uses the good parts from other JavaScript frameworks. Angular uses services and factory methods to communicate with the database.

MVC is platform that is model based. The data is loaded into the model view model by the controller. The manipulation of the data while in the models provides for advanced c# functionality. The framework is divided into layers to promote separation of concerns. Therefore it is easy to implement Unit Testing or Test Driven Development. Want to construct applications that are implemented using TDD or Unit Test utilizing repository, mocks, dependency injection and inversion of control.

Hewlett Packard - Houston, Texas 2/2012 to 2/2014

.NET Developer / Javascript / Architect / Oracle / SQL Server

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| * Liaison between India, China and Houston. * ASP.Net Ecommerce Web application * MVC 3, 4 * JQuery, JQuery Mobile, AJAX * Oracle 11g / Oracle Client Connectivity Issues * XML and SAP integration * Project management and SDLC training. * Application Security * Team Foundation Server 2010, 2013 | * SQL Server 2008, 2012, SSIS * WPF, Silverlight, MVVM and Prism * .Net Framework 2, 3.5, 4, 4.5 * IIS 6, 7, 8 * WCF, Store Procedures, ADO.Net, Entity Framework, JSON, REST * C#.Net, Asp.Net, ASP, Java and VB Script * Windows Azure, Cloud Servers * Oracle Stored Procedure and Packages |

HP provided a lot of SDLC training to describe the tools used and to track changes made while supporting the very large web site. The web site has been in existence for many years. The web site is composed of many projects. Team members from all around the world utilize the SDLC tools and processes to track changes as they were deployed to the various environments ultimately ending up in production.

As an architect, lead project to migrate the development environment from 32 bit Vista boxes to 64 bit Windows 7. The development environment mimics the production server. It utilized many different components to function. It used the registry, component services, assembly, IIS, Oracle, AJAX, dot net, and hundreds of files. Debugged the components to determine where they were breaking. Manipulate the configuration to work in the new 64 bit environment. Place the new components and created setup document for the other developers to follow. Sometimes worked on framework structures such as authentication, error handlers, messages, base clients and page frameworks within the web site

As a liaison, provide crucial support to team members. The work on the 64 bit environment placed me in a leadership role. As the users migrated, they relied on my assistance when necessary. Thereafter, was often queried for help.

The database used was Oracle. Used Oracle before, but this time worked a lot with cursors and packages. Used a lot of PL/SQL and programming techniques. There was not a database admin there for us, so each change had to be migrated to the production environment through source code tools and scripts.

As a lead developer, attended meetings, mentored and provided support to other team members having issues. Participate during construction. Communicate issues during meetings. Carefully track changes. Attend deployment meetings. Test changes.

There were many pages and environments, so the ability to debug issues was very important. The ability to determine the design patterns and structures were left up to each person. The project was transitioned many times to add functionality or introduce new technology.

MMI - Houston, Texas 01/2011to 12/31/2011

C# .NET WPF Developer / SQL Server 2008

* Performed updates, changes and enhancements to match the specification provided by the manager.
* Developing as part of a team utilizing Team Foundation Server.
* Used XAML and C# to implement the code and controls.
* Utilizing Team Explorer to report status of work items.
* The WPF interfaces retrieve data using a Server Components projects featuring Web Services.
* The Web Services communicates with SQL Server 2008 via stored procedures.
* Used Component One controls.
* TFS 2010

The purpose of the project was to provide MMI with a tool to operate their business of helping people with debt problems. The program provided tools to load the client’s credit report. Then a complicated routine was ran to determine if the client was eligible for the program. If eligible a payout schedule was created to detail how the client could use the program to reduce their debt.

The solution was tightly integrated with Team Foundation Services. The solution was composed of 3 projects … Controls, Data and UI. The UI and Data were composed of layers. Each layer had specific functionality implemented. Web services provided communication between UI and Data.

The WPF windows display in the middle of a shell. The shell provided dynamic menu and commands. The user clicked a command or menu item to open a window. The data for the window was loaded into data objects or view models. Each data object consists of a set of data types. The object browser reveals the structure of the data objects. The data is used to set the data context of the views.

The controls on the views were bound to the data using data binding. Various types of data patterns were utilized in this project as well as object oriented techniques. The controls used were a combination of Component One controls and custom controls.

This project was very complex and all types of implementation strategies and techniques were required to provide the necessary tools needed to support the business requirements of MMI.

Hewlett Packard - Houston, Texas 3/2007 to 11/2010

.NET Developer

* Technical data to computer engineers for the migration and construction of 6 data centers.
* Computer metrics, tickets, change orders and configurations for the 6 data centers.
* Combine migration information, metrics and tickets to support new data center for CIO.
* Executed SQL against production DB to make upgrades, monitor data and resolve data issues.
* Create ASP Ajax web sites using C# and JavaScript.
* Design and build databases.
* Create/Monitor scripts that load data into databases using SSIS, and C#.Net console applications.
* Create/Monitor Web Sites, HTML Emails and Logs for tracking changes to data due to scripts and data entry. Create/Monitor scripts that generate reports.
* Create/Monitor scripts that maintain SQL Server Databases.
* Visual Studio 2008 - test and convert 2005 projects
* Create Silver Light applications using Expression Blend
* Maintain servers and database permissions for authentication and file shares.
* Create scripts that automatically generate html emails and send to users, Programmer, database and server administrator providing technical details for data centers.
* SQL Server Administrator, Visual Studio 2005, 2008, 2010, SQL Server 2000, 2005, 2008 Administration, Oracle 10g, 11g administration development , VB.Net, VBA, ASP AJAX, C#, JavaScript, WCF, WPF, XAML, Silverlight ASP.Net Web Site, Microsoft Office and Business Intelligence Automation, SharePoint 2007, 2010
* Used Telerik and DevExpress controls

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| **Selected Projects** | |
| Master Build Schedule (MBS) | Full Life Cycle Project - Large Database System – VB, MS Access, Scripts, User Interfaces, SSIS, Web Applications, Data Analysis |
| CIO Foundation (CIO) | Full Life Cycle Project - Large Database System – Scripts, User Interfaces, SSIS, Web Applications, Data Analysis |
| Forecast | C#.Net, JavaScript and ASP Ajax Web Application – SQL Server 2005 - Pivoted data -- Interesting reporting tool. |
| CSI | C#.Net, JavaScript and ASP Ajax Web Application – Oracle 10g – Excel Style Filtering |
| MFP | C#.Net, JavaScript Web Application – SQL Server 2005 – Table Attribute Manipulation |
| Access Control Log | C#.Net, JavaScript and ASP Ajax Web Application - SQL Server 2005 – Bubble Event / Popup Interfaces |
| Server Decommission | C#.Net, JavaScript and ASP Ajax Web Application - SQL Server 2005 – SSIS – Excel Reporting / JavaScript Control |
| Sizing Tool | C#.Net, JavaScript and ASP Ajax Web Application - SQL Server 2005 – Large Complex Interface |
| Work Force Planning | Silverlight 4/**WPF** / WCF Application - SQL Server 2005 - Large Complex Interface |
| Win Form Tool | Used Win Form application built back at Prudential Properties to achieve in depth understanding of databases. |

**Halliburton -** Houston, Texas 2/2007 to 3/2007

SQL Server/Administrator

* SQL Administrator
* SQL Server Merge Replication
* SQL Server Administration
* Access Data Projects
* Visual Studio 2005
* SQL Server 2000
* Stored Procedures and scripts

**GEXA Energy -** Houston, Texas 9/2006 to 2/2007

.NET Developer

* SharePoint Portal Developer
* Office Automation using C#.Net code
* Web Services using C#.Net code
* InfoPath Forms using C#.Net code
* SQL Server 2005, Stored Procedures, scripts,
* SQL Reporting Service and SQL Report Manager
* Visual Studio.Net
* K2.Net

**Prudential Properties -** Houston, Texas 7/2005 to 9/2006

.NET Developer

* Large ASP.Net Web Application. Team Environment.
* ASP.NET, C#.NET, SQL Server 2000 and 2005, OOD/OOP Development, Code Smith modeling,
* Internet application featuring schemas, proxies and web services, strong typed datasets, stored

Procedures, schemas, and Win form database manipulation tool.

* Work with XML, XSLT and XSD.ASP.NET 1.1, 2.0

**Calpine -** Houston, Texas3/2005 to 7/2005

.NET Developer

* ASP.NET, VB, C#.NET, SQL Server 2000, JavaScript, OWC10, OLAP, Analysis Server
* Work as the developer in a Team in the IT department to deliver an application to the clients. Carefully listen to the requirements of the clients. Then develop a solution based upon their needs.
* Build a custom report tool and a charting tool that display cube data in the OWC pivot table. Create web page using java script and web services to pull data from the database to the client foregoing the need for the server hop.
* Convert VB.NET code to C#.NET code.
* Create user friendly interface featuring JavaScript confirmation and validation controls.
* Design an artistically designed web site using C#.NET, .Net framework web controls, Microsoft application blocks, error handling web page, and web menu.
* Communicate with database using stored procedure calls.
* Configure server security on Win 2000 and 2003 servers.

**Chevron Phillips -** Baytown, Texas 2/2003 to 12/2003 - 7/2004 to 4/2005

Oracle Database Administrator

* Leveraged an application developed for other Chevron Phillips plant locations to track health, safety and environmental hazards and implemented customized solutions tailored to the Pasadena and Borger plants
* Worked with key plant personnel to demonstrate baseline functionality and identify requirement enhancements in functionality and reporting
* Programmed modifications to ASP.NET and C# components to achieve needed functionality; designed and implemented plant specific Oracle databases
* Responsibilities were to migrate, design and develop a project called Star Track based from Cedar Bayou to Pasadena. Star Track is a tool used to promote safety in the plant through observations. The application uses role based security. Data is also organized using status and other key fields. Administrators control lookup list and approval of submission. The application features reports and web based charts to reveal trends in the data.
* Performed systems analysis, programming and support for multiple projects involving the design, development and implementation of .NET based applications using technologies that included VS.NET 2003, ASP.NET, C#, SQL Server 2000, Oracle 8i, and Crystal Reports
* Performed multiple responsibilities as .NET Web Master and Oracle DBA including design, development, maintenance, IIS administration, Oracle database design, troubleshooting, migration, maintenance, and gathering project requirements from users.

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| **Selected Projects** | |
| Plant Equipment Performance Tracking | C#, VS.Net 2003, Oracle, Server 2000, List, Grids, Connection Pooling, JavaScript |
| Over Time Meal | VB, C#, VS.Net 2003, Oracle 8i, SQL Server 2000, Repeater, Exchange, API, Web Service, Delegate, JavaScript |
| Cedar Bayou Home Page | VB.Net VS.Net 2003, Oracle 8i, Adobe Photoshop 7, VBScript |
| Star Tracker | C#.Net, VS.Net 2003, Data Repeater, Data View, JavaScript |
| Reliability | ASP, HTML, Frames, VBA, JavaScript |
| STAR | VB.Net VS.Net 2003, Oracle 8i, VBScript |
| ISO Quality | VB.Net VS.Net 2003, Oracle 8i |
| On-The-Job Injury | VB.Net VS.Net 2003, Oracle 8i |
| Finance Documents | ASP, HTML, Frames, VBA, JavaScript |

### Hewlett Packard - Houston, Texas 1/2004 to 7/2004

Application Developer

* Perform task to help the group migrate data from an existing platform to new servers and databases
* Fix and repair bugs in VB 6.0 applications featuring API functions. Fix and repair Perl scripts
* Install Shield projects for VB 6.0 applications. Script Install Shield projects that prompt users with questions and perform dynamic installations. Script Install Shield projects for custom installations, registry manipulations, and multiple application installations. Use Install Shield packager to create single file MSI and EXE installation packages. Test and Debug packages prior to releases
* Backup, Restore, Install, Configure and Maintain SQL Server 2000 Instances. Mentor developers on SQL Server 2000. Administration Tools and Techniques. Create tools using .NET to create dynamic SQL Server scripts. Perform capacity planning and database maintenance planning
* Internet Information Services Administration
* Configure IIS and .NET framework for web application development. Mentor developers on IIS Administration and Win 2000 security. Configure and migrate ASP and ASP.NET applications
* Develop a C# console application that reads and writes data in SAP to SQL Server. Created a list of records that needed to be migrated and XML DOM was used to interface to and from the database. DCOM web connector was used to make the Remote Function Calls in SAP.

**Dixie Chemical** – Houston, Texas 2/2002 to 1/2004

* Created templates for developing Crystal Reports.
* Analyze and learn an OOD SQL Server 7.0 procurement database for reporting and stored procedure creation.
* Created Crystal Reports featuring user entry criteria via VB 6.0 and SQL stored procedures with parameters.
* Windows 2000 Server, SQL Server, Stored Procedures, Crystal Reports, VB 6.0.

**FC Enterprises** – Angleton, Texas

* Perform Oracle 9i installation and administration. Modify and manipulate an Oracle 9i database.
* Examine end-to-end scenarios to use and better understand Microsoft® BizTalk™ Server 2002 tools and services.
* Use .NET to build XML schemas, files and data.
* Use file stream to load XML data into dataset and bind to web elements.
* Build 3rd Generation .NET Compact Framework Smart Device Extensions with Visual Studio .NET Enterprises Architect.

**El Paso Energy** – Houston, Texas

* Create SQL scripts that modify the Production database to match the Development database.
* Windows 2000 Server, SQL Server, Stored Procedures

**Microsoft** – Houston, Texas

* Beta Test .Net 2003
* Windows 2000 Server, .Net 2003 Beta, SQL Server 2000, Oracle 9i

Metro IS - Houston, Texas 3/2001 to 1/2002

Developer/Consultant

* Develop four applications working with team members from departments in BP. Used Microsoft tools including Visual Basic, MS Access, SQL Server, Crystal Reports and ASP to build the applications.
* Developed an ASP Web application that stored data in a SQL 7.0 database. The E-Commerce portions of these forms were developed in Cold Fusion using Macromedia UltraDev. Pay-Flow Pro from VeriSign is used to process the credit card transactions. Work in the E-Commerce War Room as part of a team to develop COM and DCOM components for a Genuity Web application COM repository. Create a SMTP e-mail COM component that featured MSMQ features. UDA COM component and Login COM components were tested.
* Visual Basic, MS Access, SQL Server, Crystal Reports and ASP Web application, Cold Fusion, Macromedia UltraDev, VeriSign COM, DCOM, SMTP and MSMQ

DTI Diversitech - Houston, Texas 6/2000 to 3/2001

Developer/Consultant

* Developed an ASP and Cold Fusion application that functions as a dependent select object structure for producing criteria based Crystal Reports from an SQL 7.0 database populated by Web Time Sheets.
* Create a Visual Basic application to populate a class structure consistent with OOD architecture of a large Oracle data store.
* Used an object browser to view the objects and instances and used this to relate the objects to the tables in the Oracle database.
* Work on an E-Commerce application. The classes of the project were organized into layers. The relational database used on this project was SQL Server.
* MS Access, ASP, Cold Fusion, Crystal Reports, SQL 7.0, OOD architecture, large Oracle data store, E-Commerce application

BMC Software - Houston, Texas 2/2000 to 7/2000

Application Developer

* Create a Visual Basic application that replicated Oracle data and objects in Houston to other countries as MS Access 97 databases.
* Automate replication process and use every object in Access OLB to programmatically modify databases.
* Visual Basic, Oracle, MS Access 97, OLB

Compaq Computers - Houston, Texas 2/1999 to 2/2000

Application Developer

* Developed a database to capture information about shipping problems.
* Developed HTML, JAVA Applets, DHTML, HTC and Animated gif websites.
* Developed a Human Resources Performance Evaluation Tool for the Credit Union using VB 5.0 and Crystal Reports and a MS Access 97 Human Resource research database.
* Database, HTML, JAVA Applets, DHTML, HTC and Animated gif websites, VB 5.0, Crystal Reports and MS Access 97

###### **Merchant Metals -** Houston, Texas 3/1998 to 2/1999

.Net Developer

* Merchant Metals is national company who manufactures metals and pipes for fences.
* Worked in the Corporate MIS department developing Visual Basic applications and Access databases. Merchant Metals has locations throughout the US.
* Developed a claim versus hour’s database that stored claims information, accident’s cost – losses, versus man-hours for the entire company by location. The man hours worked were sent from ADP in Excel worksheet format.
* Part of this program used Visual Basic for Application macros to manipulate the data so it could be read into the Access database.
* These macros were executed from within Access through Microsoft Object References and Visual Basic Automation of COM components. The graphs generated from this application were generated through Visual Basic automation of Microsoft Graph 8.0 The graphs were stored on an Access report and through object references to Microsoft Graph and the use Visual Basic automation to manipulate the graph’s datasheets as the reports were generated.
* Managed a team of developers on a complex Inventory Control and Invoicing/Accounts Receivable Application that started in Access 2.0 and was converted and developed in Access 97 to be used by each location.
* The project was a multi-developer project.
* Each developer in the MIS department worked together as a team player to produce this application. The network used is a Windows NT 4.0 configuration.
* Developed a Financial database in Access 97 for the financial area of the corporate office using a specially designed dynamic row source-updating tool that I developed through research.
* This application had 7 keys that grew from one table to the next to the finally data.
* The user needs to input each key to view that data.
* This required sophisticated row source manipulation techniques which I developed a special utility for using Visual Basic 5.0 code.
* MS Access, Visual Basic 3.0 and 4.0

###### **ABM / Easterday** - Houston, Texas 5/1996 to 2/1998

Technical Support Lead/Developer

One of the most impressive projects developed for ABM was the Purchase Order system.

* Developed an interface simple enough to use so that non data entry personal, i.e. Supervisors of job sites throughout Houston, could enter there supply orders into a central ordering system. This purchase order system was connected to the project management database on the UNIX to ensure that the monthly budgets for each job were not breached. The budget information as well as the amount of the budget used for each month is displayed right on the purchase order so the manager over the job can immediately see if the purchase order can be approved or not.
* The prices for all the products for these jobs were downloaded using an import utility created with Visual Basic 4.0 from the Easterday database. The database for manipulating the prices at Easterday was done in Access 7.0 and Visual Basic 4.0-32 bit. This collaboration allowed the prices from Easterday to be downloaded directly into the Purchase Order System at ABM. Used Visual Basic to import the new products and prices changes on the ABM side as well as at Easterday. Also used the unformatted yet powerful capabilities of the Visual Basic Printer Object to produce catalogs for Easterday and shopping list for the job supervisors at ABM.
* Developed an 8-port DigiBoard Voice Messaging Computer system using MS FoxPro 2.5. I setup satellite-tracking system for monitoring automobiles as they traveled throughout the city. Designed and implemented WFW 3.11 LAN, a Windows 95 LAN, a TCP/IP networking solution using Gateway and DNS IP addressing for access to a remote server. Setup Lotus Notes E-Mail system. Worked with remote users in accessing UNIX using Modems and Wollogong Group Software. Provide PC Tech end user support for users on Compaq, Dell, and Clone computers. Setup remote site computer systems using remote access server for access to the UNIX server. Setup and Installed WAN Cisco router, Terminal servers, Communications servers, and Hubs for V.35 frame relay network and Lotus Notes enterprise wide E-Mail system. Made high volume desktop and peripheral purchasing decisions.
* MS Access, Visual Basic, UNIX, Desktop support/help desk, WAN/LAN, Lotus Notes 4.5 Administration

#### Camco - Texas City, Texas 2/1995 to 5/1996

Application Developer

* Develop Inventory Control and Merchandise Ordering and Manufacturing Tracking system.
* The system compares the Purchase Orders to the inventory and fills orders automatically.
* The purchase orders are buying decisions made in board meetings and are related to date.
* Once orders are filled, the system tracks the shipment of the parts to the customer.
* Each part manufactured is assigned a serial number.
* MS Access, Visual Basic

**Amoco** 2/1995 to 2/1996

Application Developer

* Redesign/Enhance Employee Information Management System.
* The system used Access security to determine how much information a given user can see.
* The employee Social Security Number information was hidden from most users.
* In addition the security was used to determine what functionality a given user could obtain.
* MS Access, Visual Basic

#### FC Enterprises - Brazoria County, Texas 1/1991 to 2/1995

Programmer/Desktop Support

* Began by developing C++ 3.0 applications. Developed formatted input controls that could be positioned on the screen similar to Access or Object Vision. Developed reporting tools using C++ like language that read data from Dbase III+.
* Develop an Applicant Tracking Human Resources application using Object Vision and C++ Reporting tool.
* Install computer hardware and peripheral upgrades.
* Use MS Access, MS Visual Basic and Crystal Reports for custom development beginning in late 1993. Develop accounting and related applications on a contract basis.
* Develop custom spreadsheet, telephony application, word processing, and network support.
* On a consulting basis purchased and installed computer equipment for a number of small businesses in the Freeport/Lake Jackson/Angleton area.
* C++ 3.0, MS Access, MS Visual Basic and Crystal Reports, Object Vision., Dbase III+ , Desktop Support, Hardware Upgrades, Sale Computers, Networks, Modems.