
WASIM AKHTAR

SUMMARY:

I have extensive experience in various Information Technologies and Engineering fields (such as, database and software engineering, system designing, software quality assurance and project management). Throughout my career, I have worked with Fortune 500 and internationally recognized companies and worked on projects involving leading edge technologies. I can work independently, or as part of a team, with equal effectiveness. I also have experience in performing data analysis for nuclear power plant safety.

I am familiar with current technology trends and have a good understanding of the issues and opportunities offered by the Internet, advances in wireless and mobile computing, and data mining. I specialize in designing and developing high-end, enterprise-wide solutions around SQL Server, Oracle, MS-Access, C#, Visual Basic, .Net, XML & Windows Mobile platforms. I can develop applications with Windows Forms and WPF (Windows Presentation Foundation). I have also developed applications using MVC, ASP.NET, HTML, JavaScript, VBA, VBScript, CSS, AJAX, Razor, Bootstrap, etc.

I am result-oriented and motivated by challenging assignments. I am very flexible in adapting new technology trends that are introduced frequently. I have experience in Cloud Development, No SQL, Quality Assurance (QA) and SQL Server tools; such as Report Builder, Crystal Reports, SSMS, SSDT and SSRS.

EXPERIENCE:

Practical Software Solutions, San Jose, California

Database Architect & Developer, and IT Project Manager

2000/Present

- Worked as a database consultant with numerous companies (namely, Alliance Bancorp, California State University, Cisco, CSFB, IBM, US Bancorp, Thomas Weisel Partners, Trend Micro and Wells Fargo). Involved with all aspects of software development life cycle, including developing proposals, preparing specifications and designing, software coding, quality assurance, testing and installation; as well as, documentation & training.
- Extensive experience in creating tools for data migration, transformation & automated processing.
- Designed, developed and implemented numerous enterprise-wide database management systems, including systems for managing mortgages, investment portfolios, debt settlement services, medical offices and claims processing, conferences, airline revenues, venture capital services, contacts, pharmaceutical depot and distribution, retail pharmacies, professional societies, company accounts and salary administration using various platforms.
- Well versed in Visual Studio.NET & Windows Mobile technologies for developing cloud, client/server, intranet and Internet solutions. Instructed several information technology related courses.

PROJECTS:

Wells Fargo Bank

Risk Asset Review (RAR)

<http://wasimakhtar.com/ProjectManagement.aspx>

2018

- Setup configurations for the DEV, TEST and PROD Application Environments used by RAR.
 - Updated Comparative Statement Reports for Current and Previous Risk Reviews.
 - Identified links between numerous RAR Applications, Databases and other RAR Files.
 - Prepared Test Plans for Comparative Statement Reports.
 - Prepared Functional Requirements and Test Plans for Handling Large Text Blobs in Reviews.
 - Summarized features of existing applications used by the Risk Asset Review Department.
 - Updated key reports and application changes to add management requirements.
 - Created Functional Requirements & Test Plans for design changes to several RAR applications.
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Currency Transactions Reporting<http://wasimakhtar.com/CTR2.aspx>

2008/2009

- This application consisted of two parts:
 - An application for automatically loading daily bank transactions from branches into a database
 - An Intranet website for the Region to manage CTR010 and CTR020 Reports.
- The import application monitored folders to load all the daily transactions into a database.
- The web application was to used gather, analyze and identify currency transactions to report.
- Sets of transactions were reviewed by specialists to verify the validity of each transaction and cross-check to see if any other unusual activity that needed to be reported separately to the government.
- Managers can track reports completed by each user over a specified time frame.
- Users can view all the data on one page, or split it over multiple pages.
- Ability to create, send and track memos for each traction via Email.
- Users can export any Grid View dataset to Microsoft Excel for further analysis.
- Restricted access based on the security model assigned to each user's role with the ability to assign multiple roles to each user.

California State University, Fullerton, CAAmerican Language Program – SOF<http://wasimakhtar.com/ALP-SOF.aspx>

2012/2014

- Before this application was built, numerous departments involved in the American Language Program (ALP) managed all their student's admissions, fees, scholarships, and payment information manually. Some users had their own tools in MS-Access & MS-Excel to help them.
- Nobody knew any ALP information by any degree of accuracy. Every staff member gave different answers to the same question by the University Management, including the Dean.
- ALP-SOF was designed as an MS-Windows Desktop Application. It makes extensive use of Menus, Forms, Grids and Buttons to view and modify students and their ALP registration information.
- Users can search for a student's status in ALP-SOF in a variety of ways; such as, by a student's Last Name, Student ID, Study Agreements, Term ID, etc., to determine what a user and/or a student needs to know to fulfill their urgent needs.
- Many forms, such as the SOF Main Form and Student Lists, etc., display data that requires changing the size of the form so a user can view as much data as he needs to take care of their needs.
- To avoid resizing such forms and lists each time a user accesses these forms, ALP-SOF records the sizes of these forms when they are closed. When a user reopens these forms, ALP-SOF displays these forms in the same size as it was closed last time by that user.
- Data lists in SOF can be sorted in an ascending or descending order for any column on a list.
- A manager or a staff member can create tasks and assign it to other members on their team regarding a particular issue that they want that person to take care of.
- Managing the financial accounts was a major task for the Accounts Department. ALP-SOF provides a centralized tool where users can see and manage the status of the Amounts Due, Payments Received, Payments Canceled, Balance Due, Scholarships; as well as, Student Promissory Notes.

Practical Software SolutionsTouch View Survey Software<http://wasimakhtar.com/TVSSNew.aspx>

2016/2017

- Developed a touch-screen solution for creating multi-lingual surveys for use at conferences and corporate events. This tool was upgraded to work with MS-Access 2016 as the front-end, and both MS-Access 2016 and/or SQL Server 2016 as back-ends.
- The survey database is organized in such a way that it allows performing Data Analysis across multiple surveys, and even across multiple languages.
- It contains a Language Translation Tool to translate Survey Q&As into most European Languages.
- You can create your Survey in any of the Left-To-Right Languages; such as, English, French, German, Spanish, Italian, Greek, Danish, and many others; and then you can translate that one Survey Language into as many other European languages as you want.

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- Certified Tickets Registry (CTR-MVC5)** <http://wasimakhtar.com/CTR.aspx> 2014/2015
- This is full-featured Model-View-Controller (MVC5) website for registering Certified Safety Tickets issued by government agencies and other organizations.
 - It also has a Windows Service to send Automatic Email Notifications for expiring & expired Safety Tickets to Registered Users.
 - This Windows Service also monitors a folder to report successful payments by RC4 Encrypted XML Transaction files from their Credit Card Service.
- Debt Settlement Manager** <http://wasimakhtar.com/DebtManager.aspx> 2002/2020
- Used to manage all aspects of debt management and settlement by a leading debt settlement company.
 - Originally designed in Microsoft Access 2003 with SQL Server 2005. Recently upgraded to Microsoft Access 2013 and SQL Server 2014, and re-designed to work in a Cloud Environment.
 - Electronic Fund Transfers (EFTs) are automatically created based on the amount, frequency (e.g., weekly, semi-monthly or monthly), processing date and need for settlement funds. These EFTs are then submitted to the EFT Clearing House and their processing status posted in the system.
 - It offers seamless integration of all activities related to managing and settling credit card debts.
 - It helps track contacts with all parties involved in the settlement process, including clients, their creditors as well as agents representing creditors.
 - Details about settlement offers, as well as counteroffers are tracked. Offers can be generated in bulk or individually, based on each client's trust account balance.
 - Dozens of pre-filled MS-Word® templates are available to users to save them time in creating documents produced during the normal course of business. These Canned Letters are also tracked to avoid unnecessary duplication.
 - It creates hundreds of offer letters based on funds available in the client trust accounts on each day.
 - The system also creates and manages settlement payments to creditors and their agents. Payments can be scheduled in any combination of amounts based on the projected availability of funds in a client's trust account.
- Thomas Weisel Partners, San Francisco, CA**
- Convertibles Trading System** <http://wasimakhtar.com/CTS.aspx> 2007/2008
- This application was developed to replace a legacy system that was used by the Convertibles Desk.
 - It incorporated key features of the old system, and enhanced it by adding customizable user interface and improved analytical modeling capabilities.
 - Displayed live trading data from Bloomberg® on various forms.
 - Used Windows Forms technology to create a rich client interface.
 - Users could move, dock, hide or display any panel.
 - Used User Controls to allow repeated use of the various components.
 - Flexible user interface that allowed users to display the components they needed for their function.
 - Users could create, store and retrieve any number of customizable configurations.
 - Automatic synchronization of data on all open panels based on the selected bond.
 - Ability to simultaneously handle multiple orders, trades and allocations.
 - Integrated Infragistics UltraWinGrid to give users the ability to sort, filter, move or hide columns.
- Trend Micro Systems, Cupertino, CA**
- Marketing Data Transfer** <http://wasimakhtar.com/ProjectManagement.aspx> 2006/2007
- Assisted in migrating 500GB global marketing data to an External Team (FNL) in England.
 - Data Transfer guidelines for moving text with special characters from MS-Excel into a database.
 - Created Requirements for the External Migration Team.
 - Created Test Plans for Verifying Reports before and after Migration.
 - Prepared a Data Dictionary for the External Team.
 - Prepared Processes to Identify and Delete Duplicate Data.
 - Documented Business Guidelines to be Used for Data Validation and Verification.
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- Created Partnership Profiles for Centralized Marketing.
- Identified NFR (Not for Resale) Clients.
- Identified Information needed for Reseller and Partnership Profiles.
- Identified Integration Points for FNL Logical Data Model.
- Prepared Testing Guidelines for Data Conversion and New Application Behavior.
- Created Revenue Mapping Guidelines for Different Marketing Levels and Channels.
- Documented Requirements for Alias Types and Company Aliases.
- Prepared Use Cases to Cover Business Usage Steps.
- Identified Duplicate Channel Managers.
- How to handle numerous US and International Phone Number formats.
- Highlighted Software Security Architecture.

DATA ANALYSIS SKILLS

- Assisted Wells Fargo in optimizing large database structures comprising of more than 850 tables with Investment Analysis Risk Data from more than twenty (20) years. Highlighted and corrected errors in reporting Risk Data to the bank's executives. For more details, see Projects section above.
- Assisted Trend Micro Systems in migrating 500 Giga Bytes of Global Marketing and Sales Data from multiple sources to an external team in England. For more details, see Projects section above.
- Developed data analysis tools for analyzing Datamyte data from General Motors test vehicles for validating vehicle usage criteria.
- Designed software for data acquisition, analysis and management, and for data base integration.
- Worked on several nuclear safety analysis projects in various roles; including creating fault tree models for performing data analysis using SETS, identifying risks, and performing statistical analysis.
- Created a "PRA Repository" (NSAC152 of EPRI) that summarized risk data and methodologies used in ten nuclear power plant studies (aka PRAs) from more than 100 volumes into only three volumes.
- Summarized "NRC Reviews of Nuclear Power Plant Safety Studies" (NSAC-151 of EPRI) on 17 different nuclear power plant safety studies into one volume using classic data modeling techniques.
- Studied statistics on equipment qualification models to recommend their use in nuclear safety zones.

OTHER SKILLS

- I have frequently worked with full SDLC (Software Development Life Cycle) in various roles.
- I have been involved in many Transfer of Technology Projects that required extra attention to avoid any last-minute surprises.
- I have made many Formal and Informal Presentations; as well as, written Project Status Reports.
- I have also managed Projects across Continents; many requiring meetings at odd hours of the day.
- I am comfortable with Agile, SCRUM, Extreme and Continuous Integration methodologies.

Science Applications International Corp., Los Altos, California

1988/1993

Manager, Information Laboratory

- Responsible for developing the concept of an Information Laboratory where leading-edge technologies were to be demonstrated in real-life situations; such as the Internet.

Manager, Software Quality Assurance

- Responsible for developing and maintaining a software QA program. Developed QA plans and procedures for assuring quality during all phases of the software life cycle. Handled internal and external QA audits.
- Involved in the development, enhancement and maintenance of software used in nuclear power plant maintenance and engineering analysis; and for developing technical and user documentation.

Project Manager/Team Leader

- Worked on several projects in various capacities such as project manager and technical task leader.
 - Led the task for developing a repository of ten safety studies of nuclear power plants, as well as Task leader for documenting NRC review comments on 17 nuclear power plant safety studies.
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Electronic Data Systems (EDS), Troy, Michigan

1985/1988

Manager, Project Development

- Developed proposals of more than US\$30 Million in revenue and was involved in implementing information technology projects worth over US\$20 Million. Managed numerous hardware and software projects through various phases of concept, design, pricing, justification, procurement, implementation and maintenance.

EDUCATION:

- Master of Science in Mechanical Engineering - University of Kentucky, USA
 - Bachelor of Science in Mechanical Engineering - N.E.D. Engineering College, Pakistan
 - NOTE: Throughout my career I have attended dozens of workshops, and taken many classes to keep my technical skills up-to-date with current scientific advances and technological trends.
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TECHNICAL EXPERIENCE LINKS

- * **TEAM LEADER: Project Management, SDLC, Group Coding, Quality Assurance (5+ Years)**¹
 - Thomas Weisel Partners: <http://wasimakhtar.com/CTS.aspx>
 - Cisco: <http://wasimakhtar.com/ProjectManagement.aspx>
 - EDS Corporation: <http://wasimakhtar.com/ProjectManagement.aspx>
 - SAIC: <http://wasimakhtar.com/ProjectManagement.aspx>

- * **SQL SERVER: Database Design & Development – Stored Procedures, Views & Coding (15+ Years)**
 - CTR-MVC5: <http://wasimakhtar.com/CTR.aspx>
 - ALP-SOF: <http://wasimakhtar.com/ALP-SOF.aspx>
 - Currency Transactions: <http://wasimakhtar.com/CTR2.aspx>
 - Touch View Survey: <http://wasimakhtar.com/TVSSNew.aspx>
 - Debt Settlement: <http://wasimakhtar.com/DebtManager.aspx>
 - Securities Trading: <http://wasimakhtar.com/CSAAS.aspx>

- * **ORACLE 10g: Database Design & Development – Stored Procedures, Views & Coding (2+ Years)**
 - Convertibles Trading: <http://wasimakhtar.com/CTS.aspx>

- * **Dot Net: Software Design Environment for Websites, Desktop & Mobile Apps, etc. (12+ Years)**
 - CTR-MVC5: <http://wasimakhtar.com/CTR.aspx>
 - ALP-SOF: <http://wasimakhtar.com/ALP-SOF.aspx>
 - Currency Transactions: <http://wasimakhtar.com/CTR2.aspx>
 - Convertibles Trading: <http://wasimakhtar.com/CTS.aspx>

- * **C#: Application Model Development, Coding, Testing, Quality Assurance & Debugging (12+ Years)**
 - CTR-MVC5: <http://wasimakhtar.com/CTR.aspx>
 - ALP-SOF: <http://wasimakhtar.com/ALP-SOF.aspx>
 - Currency Transactions: <http://wasimakhtar.com/CTR2.aspx>
 - Convertibles Trading: <http://wasimakhtar.com/CTS.aspx>

- * **DATA ANALYSIS: Data Transfer, Conversion, Transformation, Verification & Validation (4+ Years)**
 - Risk Asset Review: <http://wasimakhtar.com/ProjectManagement.aspx>
 - Marketing Data Transfer: <http://wasimakhtar.com/ProjectManagement.aspx>

- * **MS-ACCESS: Visual Basic for Applications – Designing, Coding, Testing & Distribution (10+ Years)**
 - Touch View Survey: <http://wasimakhtar.com/TVSSNew.aspx>
 - Debt Settlement: <http://wasimakhtar.com/DebtManager.aspx>
 - Securities Trading: <http://wasimakhtar.com/CSAAS.aspx>
 - Medical Office Simulation: <http://wasimakhtar.com/MOSS.aspx>

- * **MS-EXCEL: Add-Ins, Visual Basic for Applications – Designing, Coding & Testing (4+ Years)**
 - DataTrac Utilities: <http://wasimakhtar.com/DataTrac.aspx>
 - Pivot Table Tools: <http://wasimakhtar.com/PivotTables.aspx>
 - Export Lists to MS-Excel: <http://wasimakhtar.com/ALP-SOF.aspx>
<http://wasimakhtar.com/DebtManager.aspx>

- * **MOBILE Apps: Application Design, Data Flow and User Interface (1+ Years)**
 - Medical PDA Application: <http://wasimakhtar.com/POET.aspx>

¹ The overlap in number of years is because I was working 80+ hours/week on multiple concurrent projects.
