|  |  |
| --- | --- |
| Profile Summary: | **8 years** of experience developing software with Microsoft technologies up to **.NET Framework 4.0**; Also experience implementing complex **databases** stored procedures, **SQL Server 2005 and 2008 R2**; Conversant **experience in frontend** technologies like **JavaScript**, Public Key Infrastructure, Public Key Cryptography Standards, On Lines Certificate Status Protocol and Time Stamp Protocol.  3 years as a manager managing developer teams and definition of Agile ALM.  **Implementation & Migration / Troubleshooting & Issue Resolution / Process Improvement** in software projects |
| Visa Status | Valid US B1/B2 Visa, Valid TN Visa |
| Current Location | Guadalajara, Jalisco. México |
| Educational Qualifications | |  |  |  | | --- | --- | --- | | ***Qualification (Course)*** | ***University*** | ***Passing Yr.*** | | Masters in Information Technology | Universidad La Salle AC | 2007 | | Systems Engineer Bachelors | Universidad La Salle AC | 2002 | |
| Certifications | SCRUM ALLIANCE – **Certified SCRUM Master** |
| Work Experience | |  |  |  | | --- | --- | --- | | ***Organization*** | ***Last played Role*** | ***Service Period*** | | CECOBAN S.A. de C.V. | Systems Design and development Manager | April 2002 – July 2012 | | (QUADIS S.A. de C.V.) SCANDA group | Software Analyst Developer | May 2001 – April 2002 | | HONEYWELL S.A. de C.V. | Support Engineer | Jan 2000 – May 2001 | |
| Skill set | |  |  |  | | --- | --- | --- | | ***No.*** | ***Skill*** | ***Experience/ Conversant/ Familiar*** | | **1** | **.Net Framework 4.0** | **Experience** | | **2** | **ASP.NET** | **Experience** | | **3** | **C#** | **Experience** | | **4** | **JavaScript** | **Experience** | | **5** | **Online Certificate Status Protocol Request For Comments 2560 standard** | **Experience** | | **6** | **Public Key Infrastructure & Public Key Cryptography Standards** | **Experience** | | **7** | **SQL Server 2005 / 2008** | **Experience** | | **8** | **Time Stamp Protocol RFC 3161 standard** | **Experience** | | 9 | Visual Studio 2010 | Experience | | 10 | Ajax | Familiar | | 11 | Apache (TOMCAT) | Familiar | | 12 | C/C++ | Familiar | | 13 | CSS | Familiar | | 14 | Java | Familiar | | 15 | JQUERY | Familiar | | 16 | LINQ | Familiar | | 17 | Silverlight | Familiar | | 18 | Team Foundation Server (TFS) | Familiar | | 19 | UML | Familiar | | 20 | WCF | Familiar | | 21 | HTML | Conversant | | 22 | Microsoft SourceSafe | Conversant | | 23 | Microsoft SQL Azure | Conversant | | 24 | Windows Azure | Conversant | | 25 | XML & XSD | Conversant | |
| Awards & Achievements | * Better Software Developer on CECOBAN S.A. de C.V. on 2007 * First place on productive bonus on 2004, 2005, 2006 and 2007 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Details** | | | |
| **Project name: Implementation of NGen1 for Health Care Services Corp. (September 2012 present)** | | | |
| **Client** | **Hallmark Services Corp Blue Cross Blue Shield Co.** | **Team Size** | 5 |
| **Project Description** | For this project my team must ensure a set of improvements to the new U65 Module of the Accelhealth App.  The improvements were composed by the following topics:   * Stabilization * Add new functionality by automated flow of information between legacy systems and customized development.   The assignment was scheduled by Iterations of 2 or 3 weeks depending the user stories assigned.  For the entire project the **research ability** to implement the correct kind of objects in Parallel Framework was very important.  Communication skills were hard tested because one of the goals was delegate development tasks to offshore team.  Another important activity was help to the SCRUM master to be able to deliver agile handling the impediments with leadership.  Finally, I was responsible for monitoring compliance with coding standards given to the development team. | | |
| **Languages/ Technologies/Tools** | **.NET Framework 4.0, C#, Classic ASP, SQL Server 2008 R2, XML, Visual Studio 2010, Outlook**, **Visual Studio Team Foundation.** | | |
| **Role** | **Software Design and Development** | | |
| **Responsibilities** | * **Analyze and understand business requirements** * Maintain clear communication with Project Managers, QA team and development teams (staff and offshore). * Write **SQL store procedures, functions and scripts** as required. * Write and **develop unit test cases**. * Check in and document code modifications in realization and update user stories design documents. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Details** | | | |
| **Project name: Implementation of electronic invoice seal (August 2011 – July 2012)** | | | |
| **Client** | **BoFA, HSBC and Banamex** | **Team Size** | 7 developers & 2 architects. |
| **Project Description** | For this project my team must ensure a set of improvements to the PACFD CECOBAN that meets “Append 20” of the SAT’s RMF.  The improvements were composed by the following topics:   * Accept new Tax Id’s issuers without restart local windows service that manage the concurrency and load balancing parameters of the system. * Update code blocks that causes bottlenecks with parallel and concurrency specific type of objects through the system’s workflow. * Add business logic to separate web services from batch process, this because the original design share the same flow for the two inputs.   The first activity was to identify bottlenecks that gave very low performance in the use of server processing cores. I played an important role in determining the changes sought in the **design of data persistence model** and in the use of **.NET parallel framework**.  For the entire project the **research ability** to implement the correct kind of objects in Parallel Framework was very important.  Another important activity was to **build automation tools** for the invoice preparation and issuance of one million files using parallel framework. Also I ask my team for an application using parallel framework in order to implement massive copy-paste faster than the O.S.  Finally, I was responsible for monitoring compliance with coding standards given to the development team. | | |
| **Languages/ Technologies/Tools** | **.NET Framework 4.0, C#, ASP.NET, SQL Server 2008 R2, XML, XSD, XSLT, Visual Studio 2010, Outlook**, **Visual** **SourceSafe.** | | |
| **Role** | **Software Architect, Software Design and Development Manager** | | |
| **Responsibilities** | * **Analyze and understand business requirements** including the SAT’s “Append 20”. * Maintain clear communication with Project Managers, QA team and development teams (staff and offshore). * Technically design the **Entity Framework modifications** to avoid low performance to the process cycle to the massive insertion of original strings character data from the electronic invoices * Write **SQL store procedures, functions and scripts** as required. * Write and **develop unit test cases**. * Research about the causes of defects and fix them accordingly. * Check in and document code modifications in realization use case documents. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Details** | | | |
| **Project name: GM eSgin Mexico (April 2010 – July 2010)** | | | |
| **Client** | **General Motors Mexico** | **Team Size** | 4 analyst |
| **Project Description** | For this project I undertake tasks of **architecture and development**. Cecoban gave GM Mexico and their development provider Alpha Trust, a security framework based on PKI architecture that allows the use of digital certificates for signing contracts in line with the brand distributors nationwide.  In addition, I was able to couple the **eSign** system of Alpha Trust with the conservation system of electronic related documents Cecoban NOM151 **Web service**, which complies with the corresponding official Mexican standard.  Finally, in the software development tasks, I gave it to Alpha Trust a comprehensive kit that included a **deployment API** so they could use the security framework based on PKI with sample programs connecting to our web services. | | |
| **Languages/ Technologies/Tools** | **C#, ASP .NET, Framework 2.0, JavaScript, Ajax, CSS, XML, SourceSafe.** | | |
| **Role** | **Software architect and developer** | | |
| **Responsibilities** | * Analysis, design and development of application logic. * **Code refactoring** of existing pages and classes. * **Deploying** code files and resources to preproduction server. * **Troubleshooting**. * Serve as **trainer** for my team. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Details** | | | |
| **Project name : ACH modernization in Mexico (2008 - 2010)** | | | |
| **Client: Most Mexican Banks** | | **Team Size** | 10 developers  and 3 architects |
| **Project Description** | This project was needed to improve the performance of the ACH central system.  I was responsible for **redesign the structure of the database** for this operational application and implement business logic entities for the entire new validation process by solving these topics:   * Avoiding the use of views and complex restriction queries. * If applies, encourage the use of temporary tables to reduce the universe of records for specific business logic process. * Delete stored procedure unused code by doing unit testing to each stored procedure. * Modify the ER model indexation in order to accelerate the speed on query of the most frequently used tables. * Optimize validator of EFT (electronic funds transfer) in order to use less memory for the allowed character validations. | | |
| **Languages/ Technologies/Tools** | **SQL Server 2005, .Net Fx 1.1.4, 2.0, Visual Studio 2003, Visual Studio 2005, Visual Source Safe, Outlook, Enterprise Architect.** | | |
| **Role** | **Solution Architect, SQL developer, Software developer.** | | |
| **Responsibilities** | * Design and implement **ER Model**. * **Write SQL code** to satisfy workflow needs and configuration parameters. * Design and implement Entities and Business logic Models. * Design secure communications model for the **workflow information interchange**. * Help in minor infrastructure tasks. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Details** | | | |
| **Project name : Implementation of a financial public key infrastructure (2007-2010)** | | | |
| **Client: Cecoban** | | **Team Size** 4 developers & 1 team leader |  |
| **Project Description** | This big project includes the entire public key infrastructure deployment of CECOBAN. The first two software solutions certification authorities were verified by Central Bank of Mexico and the Minister of Economy, with these accreditations CECOBAN could issue certificates for electronic operation of its processes with recognized safety standards in the financial and market sectors. These standards include FIPS level 2 and NIST level 3.  For this, I had to study Public Key Infrastructure (PKI) standards and Public Key Cryptography Standards (PKCS) PKCS#1, PKCS#11, RFC 3161 for TSP and RFC 2560 for OCSP.  Based on the x509 standard I created an ER Model that could be used for multiple Certificate Authorities on the same solution. The database model must include a lot of parameters in order to configure the digital certificates issuing according to the x509 standard, also must provide information to the application layer in order to create response properly to the OCSP request.  Additionally, two solutions were supplemented to engage the PKI; these solutions were time stamped and conservation of electronic documents.  Once that We have the Certificate Authorities operational, my job was to complete the PKI suite with the two additional modules mentioned, one for Time Stamp request that is consumed by the certificate authority at the time a digital certificate is signed; the other module is for conservation of electronic documents at the end of the day and is used to get a sealed electronic expedient that contains all the documents that proof the legal person at whom we issued a digital certificate. | | |
| **Languages/ Technologies/Tools** | **SQL Server 2005, .Net Fx 2.0, Visual Studio 2005, Visual Studio 2008, C++.** | | |
| **Role** | **SQL developer** | | |
| **Responsibilities** | * Research about Public Key Infrastructure standards   + PKCS1, PKCS11, RFC 3161 TSP, RFC 2560 OCSP. * Write C++ and C# POC code to implement PKI models. * Write C++ and C# POC code to implement electronic signing methods. * **Design** **ER Models** for each solution. * Design business entities compliance with the international standards. * Write SQL code to satisfy management needs. * Help in infrastructure tasks like **Hardware Secure Modules (HSM) configurations**. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Details** | | | |
| **Project name : Implementation of management system (2004-2006)** | | | |
| **Client: Most Mexican Banks** | | **Team Size** | 2 developers & 1 team leader |
| **Project Description** | The main objective of this project was to provide a banking solution to resolve disputes arising clarifications and in refunds resulting from operational errors in the check clearing process. The system consists of a single platform type configurable workflow, which supports 4 modules: elucidation of documents, images unreadable, refunds and disputes.  My main functions as a team leader were design and develop each module of the platform with my developers’ partners. The most difficult problem was to solve the confidentiality of the information of each module among the bank users, in order to solve that problem; we used the PKI authentication (client and server) for the Web Application as a first approach based on IIS security configuration.  For the individual confidentiality we developed a special menu asynchronous page that gives to every single user a specific menu with only the information the user is allowed to see and operate. On first Page Load The users receive the options on a tree menu like OWA and in asynchronous process each menu option receive a menu counter with the pending folios must be attended by the bank user.  Each module is composed by their own group of database objects like stored procedures, views and functions. All modules were design to share the same proxy application layer which connects the ASP with a windows local service named “Web Responder” and this last one executes a Data Access application Block Design Pattern.  All the business logic relies on the stored procedures, this to help avoid a lot of connections to the databases.  This solution was designed for .Net Framework 1.1.4 and is still operable, on 2013 will apply a re-engineered. | | |
| **Languages/ Technologies/Tools** | **SQL Server 2005, .NET Fx 1.1.4, Visual studio 2003, Outlook, Dream Weaver 4.0.** | | |
| **Role** | **SQL developer, Software developer, Solution Architect** | | |
| **Responsibilities** | * Design and implement ER Model. * Write SQL code to satisfy workflow needs and configuration parameters. * Design and implement Entities and Business logic Models. * Design secure communications model for the workflow information interchange. * Help in minor infrastructure tasks. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project details** | | | |
| **Project name : Implementation of image applications for check processing (2003-2004)** | | | |
| **Client: Most Mexican Banks** | | **Team Size** | 2 developers |
| **Project Description** | For this project it was necessary to adapt the multi-image Tagged Image File Format (TIFF) of files generated by Banorte, Bancomer and Banamex from their shared core banking process and convert them to interchange format used by the rest of the banks in Mexico.  For this project I need to research about TIFF standard version 6.0. Also I implemented my customize class to read, seek and get offset position of a TIFF file on C++ for the first approach and later on C#.  For the binary reading of the TIFF files was necessary to understand little endian and big endian binary encoding.  Additionally, we designed and implemented the business logic components of validation for the exchange of images between all the banks.  For the next phase of the project during 2004 my team had been working on the encapsulation of a set of classes in order to implement TIFF validation with loosely couple components and high cohesion. These classes help other team members to implement multi-tiff construction for outbound files for the image interchange. | | |
| **Languages/ Technologies/Tools** | **SQL Server 2000, .NET Fx 1.1.4, Visual Studio 2003, C++, VB, TIFF DUMP TOOLS, Outlook, Visual Source Safe, Xtreme programming.** | | |
| **Role** | **SQL developer, Software developer** | | |
| **Responsibilities** | * Write SQL code to satisfy catalog management needs for TIFF images specifications. * Write C++ POC code for TIFF images processing tools * Write C# POC code for TIFF images processing tools * Design and develop the business logic middleware for validation process of the images. * Help in minor infrastructure tasks. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Project details** | | | |
| **Project name : Implementation of Check Truncation in Mexico (2002)** | | | |
| **Client: All Mexican Banks that participate on the ACH process** | | **Team Size** | 7 developers & 1 architect |
| **Project Description** | I was responsible for redesign the structure of the database for this operational application and implement business logic entities.  As a software developer I had this duties:   1. Add columns to specific tables of the main Database. 2. Implement PL SQL script in order to add new column identifiers to packages. 3. Modify Java Server Pages (JSP) to add the new field in HTML tables and java business objects. 4. Add log’s for the business logic layer components using IFS tools. 5. Perform unit test creating my own testing tool with java.   Also, I help the infrastructure teams in the deployment of the website under the  Apache Publish Engine. | | |
| **Languages/ Technologies/Tools** | **Oracle 8i, Oracle IFS, Oracle Java Platform, Outlook.** | | |
| **Role** | **PL SQL developer and Business Logic developer** | | |
| **Responsibilities** | * Write PL SQL code to satisfy modifications to the layout of the business logic. * Design and develop business logic entities to meet the layout specifications. * Help in minor infrastructure tasks. | | |