OBJECTIVE

Seeking the opportunity to work for an organization that hires dynamic, flexible, and results oriented professionals. To develop innovative, robust, and value added solutions utilizing my extensive technical experience in all aspects of full stack software development, system integration, and engineering as well as proven technical capability in database design, programming, and migration.

LANGUAGES: GoLang, JavaScript, jQuery, Cascading Style Sheets (CSS), SQL, Bash, C#, LINQ, XML, XSL, VBScript, Perl, Perl-CGI, T-SQL, PL/SQL, Korn, HTML, and XHTML

TECHNOLOGIES: GoLang database packages, GoLang testing package, Amazon Web Cloud Services (AWS),.Net Framework 2, 3, 4, and 4.5, Windows Communication Foundation (WCF), WQL, PSExec, Perl DBI, ODBC, DOM, and SAXP

TOOLS: Sublime Text Editor, vi editor, Visual Studio.Net 2005, 2008, and 2013, Wireshark, System Monitor, Eclipse, Subversion, Nunit, log4Net, puTTY, Visio, MS Office Applications, Google Docs, and Google Sheets

DATABASES: MySQL, Oracle 9i, 10g, and 11g, MS Access 97, 2000, 2002, 2003, and 2007, MS SQL Server 2000 and 2005

O/Ss AND WEBSERVERS: MacOS, Windows Hyper-V, 8.1, XP, Xpe, 7, 2000, 2003, and 2012, Unix, Linux, and IIS

PROFESSIONAL EXPERIENCE

1871 Startup - Chicago, IL (July 2016 - present)
- **Software Developer**
  - Using the MVC (Model View Controller) SE (Software Engineering) design pattern, create front-end web-based user views employing JavaScript, jQuery, Ajax and GoLang. Provide views with the ability to make changes to the model via the Controller by updating the model and associated application database tables.
  - Updated back-end processes and front-end web-based user forms impacted by data transfer to MySQL. Provide user-friendly views and reports of data by creating or modifying existing JavaScript, jQuery, Ajax functions calling GoLang functions on the back-end.
  - Perform System Integration between application processes and AWS by allowing web-based client and Smartphone application to call backend functions responsible for uploading and downloading photos to AWS via AWS's RESTful Web Services API.
  - Successfully translated and migrated data from Parse to a MySQL database. ETLs (Extract, Translate, and Load) consisted of GoLang programs, JSON files, and SQL. Review and redesign database tables utilizing relational model.
  - Prepare multiple reports and data pulls for management, Fortune 500 clients, and research institutions (for example, Yale's Consumer Insights Center and Columbia University (NY)) to review consumer behaviour and any associated insights. Additionally, create reports via SQL scripts and Stored Procedures, reflecting user activity (Number of users signed up by Month, Number of users close to cashing out., etc…).
  - Research the use of Machine Learning algorithms in an effort to mechanically review user activities in an effort to discern good low maintenance users from high maintenance users. To provide clients with reports reflecting user word associations with brands, etc… utilizing user free text survey responses.

RDI (McDonald's subsidiary) - Oak Brook, IL (June 2012-June 2016)
- **Senior Developer** *February 2015 to June 2016*
  - Used the MVC SE design pattern. Developed multi-threaded C# distributed application consisting of XAMLs. The application was associated with a joint effort between Google and McDonald's to implement a new Google Pay method utilizing payment processor FirstData.
  - Employed WCF\WebServices that performed System Integration between system's backend processes and Google or FirstData by utilizing their exposed APIs.
  - Worked with Google, McDonald's QA, and RDI Innovation to extract and implement additional business and functional requirements to enhance system and reduce application susceptibility to slow network connections and communication with Google's API. All enhancements were performed under tight deadlines and unclear objectives. Fixed bugs and created release packages for the application. Make minor modifications to design where necessary to improve user experience.
  - Made modifications and enhancements to JavaScript programs utilizing the JBoss engine.

- ○ Prepared lab and conducted performance testing on HTML enabled application utilizing Intel NUC devices.
- ○ Transferred US-COE source control to GIT from CVS and Subversion utilizing BASH scripts. Extracted requirements from US-COE developers.
- **Developer** *June 2012 to February 2015*
  - ○ Successfully develop multiple C# programs deployed to Point of Sale (POS) system providing added functionality to remote devices and servers. Additionally, C# programs created to push Windows Batch scripts, MSIs, VBScripts, and\or other executables responsible for remotely triggering processes on numerous devices at thousands of restaurants under intense time pressure.
  - ○ Made significant enhancements and bug fixes to Restaurant Builder application consisting of JavaScript, Perl-CGI, and classic ASP. The application utilizes XSL and multiple XML documents to generate front-end forms, store application data, and restaurant configurations.
  - ○ Quickly created focused and high quality C# programs, VBScripts and batch files utilizing multiple Windows administrative tool such as WMI libraries, WQL, PSExec, etc.. to nimbly address upgrade system limitations and device deficiencies.
  - ○ Made changes to device registries and install Windows Components via script or manually. Provide support to upgrade system by creating MSI packages consisting of programs mentioned above to be pushed out to approximately 70,000 devices (PCs and Servers) at 14,000 US restaurants.
  - ○ Assisted highly challenged upgrade system by working with newly installed device drivers and assisting in the remediation of upgraded stores.

Acxiom – Downers Grove, IL (May 2011-May 2012)

- **Solutions Developer**
  - ○ Built and tested numerous high quality Korn programs executing multiple SQL*Loader files, PL/SQL, and SQL scripts responsible for loading terabytes of data contained in ftp'd flat files and Oracle tables.
  - ○ Built and tested numerous Korn programs, PL/SQL, and optimized SQL scripts responsible for performing business processing of data.
  - ○ Built and tested Crontab and AT jobs executing Korn programs.
  - ○ Performed reverse engineering on undocumented system processes covering hundreds of Korn programs, PL/SQL, and SQL scripts under intense time pressure.

Insight Global, Inc – Abbott Laboratories, Lake Forest, IL (May 2010-April 2011)

- **SQL Developer/Contractor**
  - ○ Wrote custom built and highly optimized - via Explain Plans - ETL SQL and PL/SQL scripts to satisfy Federal Drug Administration (FDA), State Regulatory Agency, Underwriters Laboratories, and Internal audit and data inquiry requests. The complaint data's source systems had major data deficiencies that would often require immediate remedies. Data generated to fulfill requests were highly accurate with quick turn around time to the great satisfaction of clients.
  - ○ Wrote SQL, PL/SQL, and TSQL scripts to quickly review and determine deficiencies in audit data. Worked with source system subject matter experts to remedy deficiencies.
  - ○ Performed System Integration support of SOAP processes utilized to electronically file FDA reports. Responsible for resolving or troubleshooting report transmittal failures.
  - ○ Successfully designed, built, tested, and deployed ETL PL/SQL packages, stored procedures, and functions responsible for performing nightly loads of database tables. The programs dynamically created transient database objects and utilized nested tables, bulk inserts, table indices, and execute immediate statement to update application tables utilized by European and US clients. Made recommendations concerning physical design of database tables.
  - ○ Supported Unix based PL/SQL programs called nightly via Korn shell programs.
  - ○ Supported web based Java application heavily reliant upon XML documents. Assist fellow developers with modifications to application design.

Integrated Statistics, Narragansett, RI (October 2007-February 2010)

- **Database Programmer/Contractor**
  - ○ Worked alongside marine biologists to attain essential business knowledge about fisheries related research and programs as well as data elements contained in multiple databases in assorted states of completeness and accuracy. Effectively extracted data conversion requirements and standardizations as well as implemented associated scientific data screening protocols.
  - ○ Worked with client to develop and implement a data model and generated associated deliverables such as entity relationship (ER) diagrams, functional dependencies, and database schema that adequately capture relations between database entities. Analyzed database schema reviewing table indexes and primary and foreign keys to determine optimal physical table design

facilitating rapid query execution.

- Successfully designed, developed, tested, and deployed SQL*Loader files, tables, indexes, sequences, triggers, and PL/SQL packages as well as Perl programs utilizing SE design patterns such as Command, Controller, and Monostate along with behavior delegation. The Perl programs leverage the properties of data structures (hash of hashes, hash of array, priority queues, etc..) in order to load and update Oracle database tables hosted on a Linux server directly and indirectly via calls to Stored Procedures.
- Utilized the iterative Unified Process and Use Cases to assist client in determining high priority business flows and to ensure IT solutions developed strictly match the needs of the business. Performed OOA/D in order to build highly flexible and robust IT solutions associated with client requirements that achieve business objectives and codify knowledge.
- Designed, developed, tested, and deployed MVC MS Access VBA application and associated PL/SQL packages and other database objects providing the user with multiple User interface (UI) screens with the ability to dynamically query Oracle tables on multiple search parameters and create, delete, and/or edit records. The application enforces business rules and database relations using ADO, DOA, Interfaces, and multiple user-defined business objects in order to perform these operations.
- Successfully designed, developed, tested, and deployed Bash scripts callable from the MS Access VBA application allowing users the ability to submit Linux AT jobs executing the Perl programs to load, update, and/or delete records contained in the Oracle database tables. The Linux AT jobs return output from the Perl program to the user via e-mail.
- Created requirements documentation, Use Cases, UML notated documents such as System Boundary, Class, and Sequence diagrams.
- Provided client with a proposed design of a Perl-CGI web based application and associated reports hosted on an Apache HTTP server allowing the user to query and update database tables.
- Provided client with a list of potential projects including, but not limited to, the development of XML schemas, Web Services, and Machine Learning Algorithms to facilitate the standardization, exchange, and accuracy of fisheries database information.
- Reviewed reports generated by a legacy C++ distributed application with a paradox back-end. Created executable code imitating application.

EDUCATION

DEPAUL UNIVERSITY, School of Computer Science, Telecommunications and Information Systems, Chicago, IL – Master of Science in Computer Science 2005-2007, GPA 3.88/4.0.
UNIVERSITY OF ILLINOIS AT CHICAGO, College of Engineering, Chicago, IL - Certificate in Bioinformatics.