

# BRENDAN REHMAN

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CONSULTANT & CONTRACTOR

## OBJECTIVE

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A versatile multi-capable web application developer with extensive corporate and freelancing experience.

Application Development and Systems Analysis. Internet systems design and integration using the most current technologies. I find it gratifying to help and work with others to solve a problem, which often requires innovative solutions.

I believe in helping my clients realize their vision, it's not enough for me to just code. I love being involved in the decision-making process that will lead to better results and more scalable platforms.

My ideal position not only allows me room to be creative but will allow me to work closely with peers. I also enjoy leading teams as well as working closely with management to define systems in relation to business process and to find ways to streamline process. I enjoy what I do and find it gratifying to help my clients achieve their goals and I work to constantly improve process, systems and myself.

## EDUCATION

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### Computer Programming/Computer Science

UNISA and Boston House College. Johannesburg, SA - 1988.

Flow Charts, Algorithms and Data Structures, Program Design and Flow Unix Systems, DOS, Humanities Studies, Mathematics for Computer Science, C/C++, Pascal

### Industry

Experience 25+ Years

### Skills:

Scrum/Agile  
Leadership Skills

### Languages

C#/C/C++,  
VB.NET  
ASP.NET & MVC  
HTML/HTML5/CSS  
Visual Basic  
JavaScript  
PHP

### Frameworks:

Laravel,  
Codeigniter, Yii2  
ASP.NET Core  
1.0,2.X  
ASP.NET, ASP.NET  
MVC

### Javascript:

VueJS,  
jQuery,  
Underscore.js

### SQL

MySql,  
SQL Server 1 thru  
2015  
SQL Server  
Reporting Services  
PostgreSQL,  
Oracle

### Tools

PHP Storm

## EXPERIENCE

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Visual Studio Code  
Visual Studio  
Xamarin for Mobile  
SQL Management  
Studio

**Current:**

### **Center for Advanced Hindsight**

<http://www.advanced-hindsight.com>

#### **Technology Stack:**

**Laravel 5.6**

**Mysql/MongoDB**

**VueJS 2.X**

**Bootstrap 4**

**CCS Grid**

I architected and developed an A/B Testing and Experiments Management System. Database, and code from the ground up to allow Duke Researchers to create and manage experiments with dynamically added resources like text, images, videos, and survey type multiple choice questions.

This is a fairly complex application that allows the center to conduct A/B testing for behavioral economics based on the work of Dan Ariely.

I also built an behavioral experiments testing platform for SMS messages using Nexmo. This platform which is part of the Behavioral Experiments System tracks SMS responses to specific types of messages by control group.

Note: \* All experiments performed always respected the rights of the people involved and there are very strict ethical guidelines to follow.

## **Altitude Rental Management System**

**For: [www.alinenvalley.com](http://www.alinenvalley.com)**

### **Technology Stack:**

.NET Core Framework  
REST Web API  
PostgreSQL  
Razor  
Bootstrap CSS

Served as Lead Developer as Scrum Master on a Intranet based project for the Wedding Industry Rentals and Services, coding and tracking team progress using Scrum/Agile.

I designed the platform from the ground up, including the database, application structure, modules and components and managed the team and tasks. I also developed a simple mobile app with Xamarin that mimics the functionality of their private intranet-based app.

## **Pfizer Digital Engineering Team / Cloud Apps Team - Technical Lead for MAP Project & Newton Project. 2017 6-month contract.**

### **Technology Stack:**

Laravel  
Angular  
MySQL  
Bootstrap CSS

Focus area: Technical Lead and Scrum/Agile Lead. Client meetings. Team allocations. Scrum Daily Standups. Review and project retrospectives. Code reviews.

Technical lead for the Newton API project. API Documentation. Review of reporting and technical decisions for Newton. Revised and reviewed Quitters Circle mobile for people who wanted to quit smoking. Worked on leading the preparation of API documentation on a broader scale for the international market.

Develop WebAPI code for the management and handling of Pfizer Marketing campaign driven through Marketo API as well a dashboard to manage campaign RFC's, Vendors and Clients.

## **Fund Raising and Event Management Dashboard** <http://www.swellfundraising.com> **2015 (8 Months)**

### **Technology Stack:**

Laravel/PHP/Ajax & SQL Server → Converted to .NET Core 1.1  
Twitter Bootstrap 3  
MySQL migrated to -> SQL Server 2012  
Entity Framework

Dashboard developed from the ground up to be easily scaled and changed than a few hundred fund raising events and has handled billing for \$3.8M thus far.

### **Mobile:**

Xamarin Studio to develop the CRM for mobile devices. iPad, Android. I used Xamarin to develop an iPad/Android apps for the team to use at events to check in guests.

### **REST Api**

Developed a backend API with security tokens to handle ticket sales, seating arrangements, and fundraising actions at the event via an iPad app.

## **Dental Sleep Solution.** **2015 (3 Months)**

### **Technology Stack:**

Laravel  
MySQL  
Bootstrap

I helped [dentalsleepsolutions.com](http://dentalsleepsolutions.com) move to a REST API, assisted in hiring the new team and wrote the core standards documentation. I also developed the new API backend using Laravel Lumen and setup API calls for outside vendors to handle insurance claims notifications and workflow.

Once the team was in place and standards had been adopted my job was successfully over. I am happy to share my code sniffer code and all of these standards documents for review.

## **Mergr.com - Financial Data Content Provider, M&A 2014/2015 10 months**

Technology Stack:

Laravel

MySQL

Bootstrap

Elasticsearch

I developed the member's sections for [mergr.com](http://mergr.com), specifically corporate M&A, advisors "Banks, Law Firms" that represent these companies, information and details on Private Equity Firms and much more. I wrote very complex queries using raw SQL to match transactions between Private Equity Firms, Law Firms, Banks to Companies and Firms and vice/versa.

## **Optimal Performance Group. <http://theopg.com/>**

Technology Stack:

Laravel

MySQL

Bootstrap

Elasticsearch

Worked closely with the business coaches to redesign the Small Business Coaching Services, Planning and Objective Tracking, S.W.O.T Analysis, Decision Analysis and Planning Tool. Redesigned from an earlier version which I had also developed.

## **Shackleton Risk Management Broker Management System and CRM 2014**

### Technology Stack:

Visual Studio

Asp.Net 4 MVC and C#

SQL Server 2012

Entity Framework

LDAP

SQL Reporting

Development of a broker tracking and management system using the latest in Microsoft technology. The application allows management to assign attorneys, liquidators and business rescue agents to brokers, the brokers are responsible for tracking client contracts, documents and basically managing the sales/account process for their clients.

### Mobile:

Xamarin Studio to develop the CRM for mobile devices. iPad, Android, also developed a HTML5/WinJS app for Windows 8 Tablets.

What's great about Xamarin? Native compilation and code is written in C#.

### REST Api:

Developed the core set of features provided by the CRM as an API. The API basically mimicked the functional requirements of the application exposed via the API. I developed a DLL that plugged into Forms in MS access that used the API extensively and approximately 80% of the front-end web UI used the API.

## **Optimal Performance Manager 2013 - 6 Months**

### Technology Stack:

PHP to CodeIgnited

MySQL

Bootstrap

Re-built and re-designed their S.W.O.T application from the ground up.

Corporate performance and analysis application which included objectives and sub-objectives related to Strengths, Weaknesses, Opportunities and Threats.

The application tracks team performance and metrics related to each of the SWOTs and allows the users to add todo lists, goals and teams members to a given SWOT.

## **Florida Southern College - ASP.NET/Kentico CMS component development. 2013 - 6 Month Contract**

Technology Stack:

SQL Server 2008

ASP.NET 4

C#

Kentico CMS

I developed a set of components and setup the content structure for Florida Southern College, the director called me asked me to suggest a CMS for their online presence that would meet all of their requirements. I assisted them in evaluating systems like Drupal and Wordpress amongst other large brands like Expression Engine and after weeks of evaluation we landed on Kentico which had a rich set of features including that fact that it was highly programmable and of ran in a Windows environment.

Basically, everything located at this URL will be replacing their entire online presence. <https://www.flsouthern.edu> - I also spent 4 months developing custom archives and news components in C# and ASP.NET as well as assisted in CSS, structuring Kentico and making sure all the content provider was able to produce content for their respective departments.

## **BWired Corporation Purchase Order Management System Contract**

<http://www.bwired.co.za/>

[www.TheWiredCorporation.co.za](http://www.TheWiredCorporation.co.za)

Technology Stack:

Asp.Net MVC 3 and C#

SQL Server

Entity Framework

LDAP  
SQL Reporting Services  
SharePoint

I was brought in to convert their existing Excel spreadsheet-based PO tracking system with one they could easily plug into SharePoint. After 1 month spent at their offices I had enough understanding of the business to deliver the system which took 2 months to develop. A demonstration of the application is available on request.

1. BWired/TheWiredCorporation one of Africa's largest ISP and they happen to be the ISP's IPS as well as having the very first contract from Ericson Europe to lay 900k/m's of Fiber Optic cable for the city of Johannesburg. A very big project to say the least and they were dealing with thousands of Vendors, Contractors and realms of legislature.
2. Also developed a HR Skills tracking and time tracking app in SharePoint which allowed for full custom adhoc reports using the SSRS and SSIS.

## **6Wunderkinder.com Germany 2011 thru late 2012**

Technology Stack:  
Windows 8  
WinJS Local Storage  
MySQL  
WinRT Framework for Javascript  
HTML 5  
Javascript  
Visual Studio 2010 with Windows RT extensions.

Developed [www.wunderlist.com](http://www.wunderlist.com) application for Windows 8 which was accepted as the first Windows 8 German app into the Microsoft App Store. Technologies used HTML5, CSS3 and WinJS/Javascript. For local storage I used IndexedDB a component of HTML5. Developed close with Microsoft Germany to be demo'd at CBIT and I often got to talk to the



lead developers of the Windows 8 runtime “basically the underlying technology that will replace .NET”.

I spent approximately 3 months developing the application and working closely with 6Wunderkinders team as well as the Microsoft Team. Note\* At this point there was no real documentation for the Windows 8 Runtime so a lot of time was spent sending my feedback back to Microsoft 8 Team.

I also interviewed and hired the current windows development team.

## **Proximity Electronic Commerce.**

### **6 Months (Freelance)**

[www.proximity-ec.com](http://www.proximity-ec.com)

Technology Stack:

Asp.Net MVC 3 and C#

SQL Server

Entity Framework

Google MAPS

Custom ETL System using SQL DMO.

Developer 200+ C# based web scrapers for approximately 300 free government bidding sites “.gov”, universities “.edu”. Each scrape was parsed, organized and stored in SQL Server. You could say I wrote a custom ETL Engine.

## **MilitaryParts.com**

[www.militaryparts.com](http://www.militaryparts.com)

### **6 Months (Freelance)**

Technology Stack:

Asp.Net MVC 3 and C#

SQL Server

Entity Framework

Google MAPS

Custom ETL System using SQL DMO.

ETL Solution for MilitaryParts.com using ASP.NET, SQL Server and SQL Server Bulk Loading API. Dynamic template management front end in

ASP.NET to assign fields to database tables dynamically which are saved as XML config/template files and then loaded as required.

SQL 2005, ASP.NET 3.X, VB.NET & C# -Developed adaptable ETL C# Library to import Excel, CSV, XML, Tab delimited text files into SQL Server Parts Database for crosscomponents.com and militaryparts.com.

## **Inventive Technologies**

<http://www.inventivetec.com/>

**12 Months**

Technology Stack:

Asp.Net MVC 3 and C#

SQL Server

Entity Framework

Java API

Web Services, Java Web Services for Inventive Technologies using Java Persistence API, JAX-WS and MySQL Database. Database design, MySQL, MySQL Clustering on Windows, Linux Server Installs, SQL Server Installs.

## **Lead Architect/Scrum Master/Lead Developer**

**Xerox.com - 4 Years on (Contract)**

April 2006 to November 2009/Early 2010

**G.E/Xerox Capital Services, Chicago**

Technology Stack:

SQL Server 2005,

SQL ML Columns,

Object Data Types, C# 2.0, C# 3.X, ASP.NET 2.X/3.X,

T-SQL,

ASP.NET Security Provider,

Ajax,

Reporting Services and Window Workflow Engine.

Major part of this project was to convert a legacy application developed

in Visual Basic that talked collected data from an series of CSV files delivered to a folder via FTP from a pre-existing mainframe database.

Converted the legacy project from its current PDF output process using Visual Basic to C# and SQL Server Reporting Services. I re-designed and re-architect the system by assisting the project manager in writing the business requirements document as well as the systems requirements documents. During this process I was responsible for finding a solution that would automate the delivery of Xerox invoices to clients that was more efficient than the previous process of Digital Invoice Delivery.

My role changed at this point to include handing out tasks for deliverables and providing senior level support to developers both onshore and offshore as well as managing the development process/lifecycle using agile/scrum model. I was solely responsible for implementing Scrum as well as training the PM's on the Scrum process. Using Scrum showed an 80% increase in productivity and deliverables on the project. I also managed 4 developers, 1 local and 3 offshore developers in india.

New solution technology includes:

SQL Server Reporting Services

An multi-threaded automated Report Delivery Windows Service written in C#

A full template report system using Soft Artisans Office Writer tool.

Windows Workflow Foundation for delivery process and approval.

Soft Artisans Office Writer for Reporting Services (Templates)

Windows Workflow / Windows Communication Foundation

(Please send requests for architecture diagrams)

Legacy Digital Invoice Delivery System

Digital Invoice Delivery via FTP, EMAIL enhancements to Multiple Source Invoice System. These enhancements included the creation of parameter options, security credentials and invoice delivery types which included EDI. I was responsible for architecting the entire solution which included the following architecture:

1. FTP Processor
2. EMAIL Processor
3. EDI Processor
4. Data Layer
5. Multi-threaded invoice service.

## 6. Dynamic PDF generation from XML Templates.

Development of the Multiple Source Invoice System which is responsible for all of the presentment of invoices related to copier usage worldwide. This system is responsible for handling between 50 and 100 million dollars per annum in invoices.

I also developed a dynamic Excel spreadsheet engine that allowed the users to create dynamic spreadsheets from data. The spreadsheet builder tool allowed the users to create columns, order columns and specify column formats and functions like date, time, decimal and grouping with sum. I built an C# Object to generate SQL queries from fields selected by the users very much like the SQL Query Analyzer tool.

Windows Services Developed: Tax Processing Service. PDF and Excel Output Generator Windows Service.

Classes: SQL Query Builder Class. Excel Base Class for Columns/Row/Cells.

## **DBA/Senior C# Developer PricewaterhouseCoopers, Tampa, Florida 2005 - 2006**

Technology Stack:  
SQL Server 2005,  
SQL ML Columns,  
Object Data Types, C# 2.0, C# 3.X, ASP.NET 2.X/3.X,  
T-SQL,  
SQL Server Reporting Services.

SQL Server DBA. Migrated multiple servers from SQL 2000 to SQL 2005 for one of the most highly visible projects at PWC. Wrote Stored Procedures for the Developers, Led a small team in C# development projects for PWC clients.

Developed Multithreaded ETL processes to load Flat Files, XML Files and Transformations with XSLT.

C#, SQL Server 2000/2005, Some Oracle. Database management, data loading, data transformation, data validation, SQL Server Integration Services. ASP.NET.

## **Senior Developer** **Techdata, Clearwater, Florida** **2005**

Technology Stack:  
SQL Server 2005,  
Object Data Types, VB.NET,  
T-SQL,  
SQL Server Reporting Services.

This project is an Asp.net Web Application written in VB.NET with a SQL Server database backend. I was on a team of 2 tasked to build a web-based application to manage Tech Data's budgetary data from different divisions around the globe.

We were required to provide interfaces to allow users from these divisions to upload and import their budget data into a secure centralized location (a server at Techdata's headquarters in Clearwater).

Designed the database and wrote the requirements. Developed the interface and backend database code as well as OO Class to manage security, file uploading and data processing.

Responsibilities include:

- Requirements analysis
- Design document.
- SQL Server Database design/creation (Visio)
- Development of the Middle Tier (Business, Data) (UML with Visio)
- Exception Handling Class
- ASP.NET Base Page Class with enhanced functionality and Exception handling integrated.

## **Lead Developer** **NOAA, St Petersburg, Florida - WWW.NOAA.GOV** **(US Federal Government)**

**March 2004 - August 2005 18 Months**

Technology Stack:

SQL Server 2005,  
Object Data Types, VB.NET,  
T-SQL,  
SQL Server Reporting Services.

Database design and systems engineer and lead developer for a permits information management system utilizing (Flash Remoting Engine) - Flash MX Professional Web Services and Remoting with ActionScript 2.0. Development of Backend .NET Components as Web Services exposed via the Flash Remoting engine. Tricky work to say the least since REST was not a fully specified technology just yet.

Other responsibilities included Database Design discussions, best practice UI methods, naming conventions.

**Lead Developer, Project Manager  
Gatorbait Software, Inc  
November 2002 - March 2004**

**Palm Harbor, FL Gatorbait Software, Inc Palm Harbor, FL**

Technology Stack:

Oracle Database,  
Visual Basic.Net,  
Visual Basic 6.0,  
Oracle Forms,  
SQL Server

Database design and systems engineer and project leader for a jewelry store stock control system in Beverly Hills, CA. Worked closely with the CEO to save the Jewelry store approximately 10 million dollars per year in theft before the system was in place. Also developed a .NET based

printing and reporting system to track barcode labels and create barcode labels.

B2B websites for multiple business clients related to Gatorbait Software.

**Application Developer**  
**City of Danville, Danville, Virginia**  
**August 2001 - October 2002**

Technology Stack:  
Coldfusion,  
Dreamweaver Ultradev,  
Dreamweaver MX,  
Coldfusion MX,  
SQL Server, Microsoft Access.

ColdFusion and Flash Based Content Management System for use by the City Departments of Water, Utilities, Finances, Traffic, Schools. Also, setup Linux/IIS web servers for the county school systems and trained teams of people to use Macromedia Dreamweaver to developed web-based database applications.

**Pittsylvania County Schools System.**  
**August 2001 - October 2002**

Technology Stack:  
ColdFusion,  
Dreamweaver Ultradev,  
Dreamweaver MX,  
ColdFusion MX,  
MySQL

Provided Dreamweaver MX Training for Web Application Development using Coldfusion and ASP. Setup and maintained Linux/Apache Servers, database design and implementation of school board systems using Coldfusion and Dreamweaver MX.

**Virginia Tech Bioinformatics Department**  
**August 2001 - October 2002**

Technology Stack:  
Apache XML,  
XSLT Cocoon,  
PHP XML Parser Classes,  
MySQL

Pathogens Tracking System  
Resources Used:  
<http://xmlrpc.usefulinc.com/php.html>  
<http://cocoon.apache.org/>

## **KTEK Systems, Palm Halbor, Florida Application Developer September 1999 - June 2001**

Technology Stack:  
Visual C++,  
Visual Basic 6.0, SQL Server

Developed for KTEK a Database Scheme and a Server based electrical dealing server application. The application worked very much like a stock exchange dealing room application. Dealing and pricing megawatts of energy for the Florida Power corporation. It had previously been developed in C++ and then converted to Visual Basic 6.0.

Probably the most complex project I have ever worked on, yet the most fulfilling.

## **First Job in the US of A Application Developer March 1997 - August 1999 MOON Communications, Clearwater, Florida**

Technology Stack:  
Rational Rose UML Tool, C++ for COM Objects, Visual Basic 5.0/6.0, SQL Server, MTS / COM and DCOM, Visual Basic Web Classes, VB DHTML, DHTML, Crystal Reports Engine.

Technical Lead for an 8-man development team to develop a medical record keeping system for use over the internet. Database design, I also developed a code generator to generate all of the relevant MTS Code in



Visual Basic. We made use of the technology from NASA to monitor and provide in home care, these devices would allow us to check a person's heartbeat and blood pressure remotely. The Medically Oriented Operating Network System my team developed was used primarily by the register nurses to enter and keep daily records of a patient's vital stats. Number of doctor visits, medications etc.

Rational Rose UML to define project specs and objects at the technical/programmer level and entity relationship diagrams for SQL Server. Since the application was used by Registered Nurses from home we made extensive use of Objects in the MSMQ environment to facilitate data integrity. It was extremely important for the system to have consistency in data since these were patient records and medical related information.

Project Leader for team of 8 developers.

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### **Other Freelance Related Activities and Web Applications:**

**TheMusicBed.com - Music Content Provider. Laravel Developer.**

**Chabooli.com - Social Bookmarking Website. Laravel Developer.**

**CraftTalk.com - Consignment Manager Application. Laravel Developer.**

**SavvyCard.com - Lead Codeigniter Developer.**

**Trade Carbonless <http://www.tradecarbonless.com/> - Lead Codeigniter Developer.**

I am happy to discuss each of these projects in greater detail. These were very short development stints building sites for clients.

More links and code samples are available on request.

## **ACTIVITIES & AWARDS**

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Computers and the design and methodologies related to right and left-brain theory, design of self-help reading programs and general self-help programs to facilitate higher levels of learning and education.  
Computers in education and educative learning through interactive software.

**Computer Users Council - Taught programming to under privileged youth.**

Simplified Nutrition Online  
Stephen Bennett, CIO  
888-773-5521

Craft Talk, Inc  
Veronica Pedro, CEO  
425-409-1501

