

TECHNICAL HIGHLIGHTS:

LANGUAGES: Ruby, PHP5, C#, .NET & VB6, Java, Autoit. New skills can easily be attained.
FRAMEWORKS: Rails, jQuery, Prototype, WordPress, Joomla, Drupal, Zend, Pear, CodeIgniter
DATABASES: MySQL, DB2, Oracle, SQL Server
TOOLS: SVN, CVS, GIT, Dimensions, TFS, Bash, Flash, Zend, Photoshop, Selenium

EDUCATION:

Oakland University - Graduated May 2004 **Rochester Hills, MI**
Major: Management Information Systems
Scholarships: Applied Technology In Business Scholarship

CORPORATE DEVELOPMENT EXPERIENCE:

WELLCARE HEALTH PLANS

Tampa, FL

▪ **Senior Software Engineer (Ruby on Rails)**

Oct '12 - Today

- Deployed SAML Single Sign-on with Trizetto .NET consumption service. Created signed canonicalized XML webservice written in Ruby.
- Wrote and published Ruby Gem for reporting front end. Pushed to production.
- Refactored auditing reporting framework in PL/SQL for MySQL to Oracle conversion
- Rails 3.2 upgrade support and MySQL -> Oracle conversions

LIMELIGHT CRM

Tampa, FL

▪ **Senior Web Engineer**

May '10 - Sep '12

- Autonomously supported high volume PHP/MySQL transactional credit card billing system
- Critical developer tasked to solve most outages and triage heavy load issues in production
- Focused heavily on query optimization and re-factoring existing architecture
- Created Payment Gateway [Load Balancer](#) to abstract monthly max account limits
- Fixed over 1000+ production defects. Created mysql upgrade/migration procedures.
- Built higher dollar [pre-authorization module](#); As well as other [powerful billing strategies](#)
- Integrated with [CCBill dataLink](#) web services (syncing all rebills into Lime Light)
- Created internal page/roles/patch system for other developers to use in their day-to-day work
- Added [call-confirm](#), [fraud](#), [prospect](#), [membership](#), [checking](#), [chargeback provider](#) objects
- Created customer [retention reports](#). Vastly improved existing reports speed and accuracy.
- Rewrote [new order creation page](#) and added dynamic pricing and more
- Created a standard database build and created company SDLC for ideal code isolation
- Maintained Data List class, [campaign management](#), [Sales Tax](#), [Test Credit Card](#) modules
- Built numerous [transaction API methods](#)
- Created [subscription management](#) features

HEALTHPLAN SERVICES

Tampa, FL

▪ **PHP Web Developer**

Apr. '08 - May '10

- Designed business rules database to allow users to configure page validation checks/logic
- Created internal peer review process, time-tracker, dimensions triggers and a new CMS
- Rewrote, optimized and revamped excel table maintenance utility DB2 import utility
- Refactored rating engine XML life insurance quoting gateway for Farmers insurance

ENSEMBLE CHIMES GLOBAL

Troy, MI

▪ **VB Web Developer**

Feb. '07 - Feb. '08

- Wrote DLL extensions and triggers for meta data driven time and expense application
- Prepared application for internationalization by programming data extraction tool

CHIMES

Troy, MI

▪ **PHP Web Developer**

Sep. '05 - Feb. '07

- Debugged views, data issues and package errors for various production problems and scenarios
- Optimized existing Oracle functions
- Implemented new change requests and processes for software builds in PHP & Oracle
- Wrote custom SQL parser to transform queries, GREP utility/language translator, Wiki Converter, meta data extractor and Java/Selenium automation robot script

COMPUWARE & GENERAL MOTORS

Detroit, MI

▪ **Various IT Positions and Internships**

Jun. '03 - Sep. '05

DETAILED CORPORATE DEVELOPMENT EXPERIENCE:

Wellcare Health Plans (<http://wellcare.com/>)

10/2012-Today

Senior Software Engineer

Tampa, FL

Working at Wellcare has been a great opportunity to work for a Fortune 500 publicly traded company on more emerging technologies within larger corporations such as Ruby on Rails, Memcached and much more.

My first project was to deploy an integration for a single sign-on iframe hook into a product from Trizetto called Care Advanced Portal. The desired method of logging in was to use SAML protocols and signed XML signatures using public/private keystores and a digest taken from a PKCS12 file I read from ruby. This secured the PHI verifying it came from the proper source. The end result was an iframe with the child application rendered with loaded username data. There were no gems that actually did a proper SAML with signatures and canonicalization so I wrote my own implementation.

For one project (RAPS 2.0), I developed an open source ruby Gem called `widget_list` (See Detailed Open source Experience for more information) in which this gem rendered an active record paginated reporting framework. Users could select a grouping to find counts of certain columns, and also click on an advanced drop down to select a desired start/end date and be able to filter whatever their given sort/search/page with a new advanced filter. They could export the data and also perform some basic updates on the status of these items they selected. My gem is now used by a fortune 500 company. In addition to writing this reporting gem, I converted a rake migration another developer wrote which took 9 hours to complete and I optimized down to 30 seconds.

In another oracle PL/SQL task, I had to maintain an `audit_log` processor that was placed incorrectly into production to produce a report. This PL/SQL procedure would process around 14 million logs a month roughly and I had to find all sorts of data issues that this was re-written from mySQL to Oracle. I had to interact with Unicenter Autosys to get jobs properly working within windows batch files and SqlPlus command line executions.

There were several miscellaneous non-project based tasks that I also worked on:

- I assisted in several security updates as well as tasks oriented for a mySQL to Oracle conversion and rails 3.2 upgrade.
- I developed concepts for improving our rake migration tasks with oracle nuances.
- I converted a shared database development environment to one that can run on Oracle XE.
- I worked on several active record model production support tickets for a solution which rendered ExtJS data grids off of any given model.
- In order to support production log searching, I wrote some bash scripts to search across the load balanced environment to look for keywords across all the servers.
- I also improved our logging capabilities by deploying a proper working fluentd consolidated logger to secure PHI data to be written behind the firewall.

Lime Light CRM (<http://limelightcrm.com/>)
Senior Web Engineer

05/2010-09/2012
Tampa, FL

I started off my position at Lime Light CRM as the only developer working for the company. The past 8 years working in various programming positions, I had been used to sharing development workload with others and working in teams, so this was an entirely unique experience to run all operations of a small software company.



Over time, I vastly improved the existing code base to a new level of professional billing software. I reduced costs by automating internal and external processes through my code, vision and innovation. I increased revenue for clients by implementing several billing strategies and web service API integrations. I am a key player and driving force in much of the companies' technical vision and support of various problems that the clients and heavy growth carry with it. There has been several hundred critical application components I have built in this company that will allow a steady and maintainable growth to continue in the future. These critical application components were mostly written with database procedures/triggers, real-time data monitors, data warehousing, php core libraries, index tweaking, maintainable reporting, bash scripting, slow query reporting, de-normalization /caching techniques and several other valuable practices implemented into production. There are too many components to individually highlight, but feel free to click on the links to the documentation of some of the modules I built on the first page.

HealthPlan Services (<https://secure.healthplan.com>)
Web Developer

04/2008-05/2010
Tampa, FL

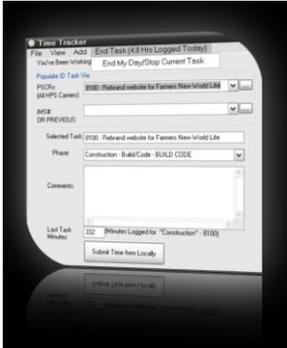
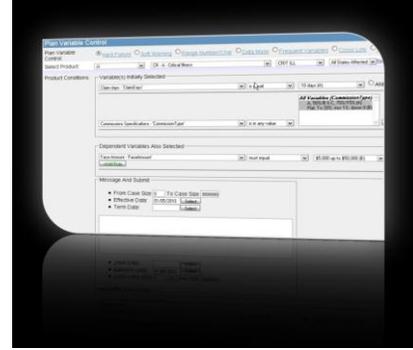
During my two year tenure at Healthplan services, I implemented several core components of their core libraries, reports, internal tools and was a central repository of information on our software, workflows/procedures and much more. I was able to work very closely with so many different people in the company to fulfill as many goals and requirements as possible. I was an important team member to triage all incoming issues for the entire web development group and also brought on for several billable projects for major health care providers who were our clients.



I was highly recognized and praised for my code I wrote to fully automate developers' documentation/code review process. With this application I extracted oracle data from our source control database and production web servers to allow developers to easily diff files from their baselines and requests while at the same time creating new HTML versions of HPS's peer review developer signoffs. This saved the company roughly \$2000 a month in developer's time they used to use creating documentation and doing peer review. This program written in autoit was installed onto all the developers' machines to write code review files to a network drive and build the data for the web interface.

David Renné

Another project I was tasked with was a new design and concept for what we called the “Benefit Trinity” table sets. In this project, I wrote an AJAX interface to allow business users to configure form validation on dynamically generated forms. It basically allowed them to chose the form values and combinations that are not valid and my classes would output the appropriate JavaScript code based on their rules.



In another innovative project of mine, I wrote a Time Tracking application of which completely integrated with the customer billing system. At HPS, they needed the developers to bill all of their hours to a particular task and phase of a project. The utility I wrote selected all the Sybase data from our billing system and allowed the developers to keep local time files throughout the day and would allow them to import all the data into the system at the end of the day. The code I wrote used Pear DB abstraction objects to insert the timesheet rows needed each day for all the different phases of the projects.

I also maintained and rewrote an excel spreadsheet parser for a data maintenance utility they use internally. Users would always get fatal errors with the excel writer/reader when they tried loading more than 15K records as well as it would take roughly 10 minutes to parse by looping in php. With my new JAVA CSV parser that I wrote, I allowed more than 65K records in one sheet to be loaded in under 1 minute of file parsing time. After my launch of a new production table maintenance server, one end user loaded 5 million records in one week and raved about the performance speed increase.

As you read of my other work experiences, you will notice that I have a great passion for automating internal business processes because of how much value it brings to companies to cross integrate several systems.

Ensemble Chimes Global VB/Java Developer

2/2007 - 2/2008
Troy, MI



Chimes was acquired by Axium and I spent a year balancing PHP work as well as some Microsoft technologies and VB6.

I built out tools to extract meta-data tables into a deployable build procedure as well as converted into our repository. The existing developers of the software neglected to have change control in their production environment, so I was tasked with assisting in converting this platform into something our development group could work with.

We also had an initiative for a proof of concept to automate user experience by programming a java web bot (Selenium Remote Control). The purpose of this project was to read SQL Server application tables via Java to create what we called ‘The Code Generator’ because it would read a page’s inputs and potential page behaviors and would execute Selenium objects that would fill out the appropriate form input with sample data from the database.

In another project assigned to me, I created a translation system for the entire myEnsemble software line. I took roughly 350 columns storing English data elements and dumped all data into a translation warehouse.

I also programmed several customer change requests assigned to me for the 'myEnsemble' web application and my existing companies product line.

Chimes Inc.
Web Developer

9/2005 - 2/2007
Troy, MI



At Chimes, I engineered enterprise level web-based software applications using object oriented PHP and Oracle/PL SQL.

I enhanced numerous change requests such as an ajax cost center searching, tailoring CSS layouts for each client, creating an enhanced time zone profile selection widget, an interview management system, emergency contact forms and much more. Another part of my daily job was fixing complex defects by debugging packages and views as well as keeping production stable and debugging emergency issues.

In addition to production support and new development, I also maintained various internal tools such as a SQL parser that would input UPDATE statements and convert the values and field names to INSERT statements for a particular business need a client had to translate our database to new languages. In addition to those translation needs, I built out a source code search tool to scan our source for certain hard-coded strings and created a PHP script that would extract English sentences into a compiled machine object for usage of gettext() sentence swapping.

Another task I had, I ended up refactoring and enhanced the internal entire Supplier vetting system. This system would keep track of all the legal requirements for suppliers to be vetted in the system and I worked very closely with the business units on this system.

Development management also had a need to convert word coding documentation into our wiki website, so I wrote a script to convert our database and code documentation and migrate it to the web automatically.

Overall, my skills as a PHP expert grew leaps and bounds with Chimes.

Compuware (*Vantage Line*)
Post Sales Consultant - Product Related Services

06/2004 - 09/2005
Detroit, MI

My first year out of college I worked for the Vantage post sales support group at Compuware (http://www.compuware.com/services/itsm_product_related_services.asp).

I implemented their vantage tools on various client sites to provide insight into application performance problems at various times of the day and these tools provided needed reporting mechanisms to understand performance thresholds being exceeded.

I would use scripting tools to determine if transactions exceeded Service Level Agreements and would report on bot script execution results to a high level "dashboard". I would use network packet sniffers in their tools to determine root cause analysis on where application bottle-necks occurred.

For one client, I created enterprise dashboards for all their major hospitals and all their applications for all hospitals and my scripts and dashboards alerted the helpdesk of any slowness in the different applications. This client bought over a million dollars in sales support and products for this project. I programmed this customized dashboard giving them a visual

overview of what applications are slowing down because of performance bottle necks so that their call centers know what the status is.

**Compuware (File-Aid CS)
Internship****Summer of 2003 and 2004
Detroit, MI**

I mostly worked with the File-Aid CS product and java developers as an intern for two summers doing a regression test suite against their products and logging defects. I familiarized myself with tracking bugs via their mainframe tracking interface as well as did a lot of research on XML DTD's and Schemas for some of their XML data type validations and XML migrations.

Additionally I worked with other software groups throughout the company with these side projects:

- Analyzed the web traffic for three months of data for all employees and came up with a high level overview of categorized websites and presented these findings to high ups in the company
- Presented twice to Peter Karmanos with my summer projects
- Created various project plans for desired features I found during testing of ConverterPro FileAid-CS product

**General Motors
Internship****Fall of 2004
Warren, MI**

At general motors, I automated two processes through visual basic 6 code for their 'Technical Education program'. The first was a visual basic application that imported scantron data and automated inefficient tasks that people had to do.

The second significant project was an excel parser/reader that migrated approximately 300 questions per word document, into excel format and created a decision matrix to help understand which classes to adopt. It also prepared a mail merge with the data sets into an entire course catalog of the classes in which will be offered (printed) for each semester. This book was distributed to all employees to maintain their education.

DETAILED OPEN SOURCE EXPERIENCE:

Open source is probably one of the most important concepts that I wholeheartedly value and I think greatly services the entire IT industry. I love to come up with new ideas for automation that solves business problems I encounter in my day-to-day work. I put some of these helpful tools out in the public domain.

http://github.com/davidrenne/widget_list

Widget List

This was my first ruby gem and it taught me a lot of some of the differences in the language compared to other languages in my work experience. It provides a mechanism to draw an ajax data grid whose assets are mounted in the asset pipeline using middleware Rails initializers. It supports any active model or sequel ORMs to fetch the report data and remembers most settings of user interactions with the list. It provides several different “widgets” for inputs, buttons and more. It is used by a fortune 500 company I have worked with.

Here are some of the features:

- Full sorting ASC/DESC and paging/limits of list via ajax
- Easily add row level buttons for each row
- Custom tags to pass to be replaced by actual data from each column/value
- Search bar/Ajax searching
- Column mappings and visible column names
- Checkboxes for each row for custom selection and mass actions
- Session remembrance for each list/view of what was last sorted, which page the person was on, the limit and search filters
- Ability to set a custom HTML arrow which draws a hidden DIV intended for someone to put custom widgets inside of to pass new filters to the list before it executes
- Buttons for each row and areas on the bottom of the grid where you can add "Action buttons"
- Export visible data as CSV
- Grouping/Predefined report filter feature
- Automatic wildcard search support as well as CSV numeric parsing of when to perform a LIKE search or an IN statement on the primary keys

<http://sourceforge.net/projects/unittesttagger/>

Unit Test Screenshot Tagger

The unit test screenshot tagger program is a thick client and web/mysql/ftp front ended program written in the Autolt framework. It allows any developer to hold CTRL + MIDDLE CLICK to define a transparent region across your desktop. A dynamic form will popup showing all their tasks they are to work on and they enter in their functional testing section as well as expected results, actual results, inputs/outputs, remarks and a pass fail. Depending on how you have it configured, it will generate a document showing what your outcomes of the unit test in a record or document format. It is a fantastic way to organize and tag your screenshots into a



usable format for unit tests or other development and design documents. Rather than all the manual work associated with creating an informational manual, I use this to automate all my documentation.

http://github.com/davidrenne/cruddy_mysql

PHP/mysql CRUD System



phpMyAdmin is great for developers managing tables and data, but for many applications, it would be ideal to have a CRUD system such as these libraries in which it allows the programmer to define field relationships, program custom pre-post processors upon create, update or delete as well as control form validation and input types. This administration console allows for an advanced MySQL data management, which allows business users and developers to work together on maintaining data without the need to write a custom back end interface or having the business person know any SQL to navigate and perform CRUD actions.

http://github.com/davidrenne/deployment_maintenance

Deployment Release and Database Maintenance Tool

This open source deployment utility allows you to:

- Abstract multiple database schemas into “deployable regions” in order to ease sending up code and database script patches
 - Also allows you to select multiple custom databases
- Hooks into multiple SVN repositories and branches to allow you to create code release packages
 - Deletes, adds folders and modifies files into your region paths
 - Parses checkin messages to relate to project Numbers
 - Organize file ordering for release
 - Control which branches of code can ONLY or can NEVER go into a region
 - Warns you of certain matches in your code you are about to release
 - Checks for PHP parse errors
 - Creates a relationship between projects and blocks of code impacting the source and allows you to tag and organize blocks of code for testing purposes
 - Links your projects/tickets to any ticketing system URL
 - Allows you to rollback a package from any region
 - Peer review OLD/NEW and visual HTML of differences
 - Notifies production support and developers when all the code has been pushed
 - Emails off hourly report from multiple branches of changes
 - Keeps track of developers’ time by project basis (if project ID checked into each checkin message)
- Authenticates multiple developers
- Supports transactions, backing up tables and notifications in a custom SQL format
 - Reports on execution time and errors for each revision
- Allows you to report and build custom output reports on multiple databases with the same schema in your regions listing
 - Keeps track of all your SQL history to restore and reuse
 - Combines the results from multiple databases into a single CSV file (even outputs affected counts on updates into a file across multiple databases)

- Allows you to add various data monitors that run once an hour
- Send Reports VIA URL to multiple parties
- Optionally polls MYSQL threads if you are thrashing your server with too many queries it will throttle
- Click a link to save and backup all the data into a permanent static HTML page
- Reads from SLAVE server and WRITES to master server

DETAILED FREELANCE EXPERIENCE:

While my primary focus is full time employment, there are other opportunities for side work and interests of which I pursue to further my skillset in web development and other programming ventures.

<http://solecollector.com>

Application Development

Built and configured \$20,000 dedicated mySQL and apache instance. Migrated from ½ a terrabyte of files and code from existing older servers over to the new servers. Hotfixed several issues with their custom message board. Fixed their broken message board search.

<http://shell.com>

API Development

Integrated and extended existing HTTP_REQUEST2 PEAR libs and created full blown API interface in PHP for their mobile miles matter marketing system.



<http://lightwareusa.com>

Site Design - Joomla

For Lightware USA, my uncle's company was in need for a website for to show off his companies' product lines. I customized a Joomla instance for this application and installed and configured numerous plugins to their liking. Overall the new site revamp increased revenue for his company so customers can easily traverse an organized product line and a professional looking manufacturers' website.

<http://hrscontrol.com>

Site Design - C# Webserver & Application Development



HRS Control is my brother's company who he is the core C# developer for the application. I setup this WordPress instance and put up a ton of content pages for the various features he has built for this very successful software company. He needed my help in many features though in addition to the entire design of the company portal.

I assisted in building a C# web server that the software runs on. This webserver component takes a WPF button designer on the desktop and reads in the XML positions and features of each button and dynamically renders a fully scalable resolution CSS interface. We both tweaked many components to render the output of this webserver technology. The fully scalable interfaces run on all phones, tablets and browsers. I built out all the jQuery ajax to send and receive changes from the desktop or other thin clients. This webserver component is one of the most widely used

components in his entire software package. I developed timezone adjusted image caching routines so that the images are not fetched unless the source has changed on the web server.

I built out the web server licensing custom application to track all the hundreds of demo downloads they receive. And finally built a system to upload and extract zip files and read meta data inside those zip files to allow for a community of web interfaces.

Finally I built out their e-commerce site where we needed a shipping cost calculator with FedEx API and linked the submission forms to paypal.



<http://livingfuel.com>
Complete Site Rewrite

For LivingFuel.com, I utilized, interfaced and wrote custom modules for BVCommerce installation, which replaced Living Fuel's existing Site Forge commerce/shopping cart application. Assisted in design layout and wrote customized pricing schemes based on user accounts. The site went live in June and thousands of customers use it each day.



<http://lounge.cigarfamily.com/>
Site Updates

Added customized features to vBulletin message boards including smoke stack messages, total post counts and more.



<http://allisbrawl.com>
ASP.NET/C# Developer

I assisted in programming object oriented ASP.NET and C# code for a social networking website oriented toward the Smash Bros. video game community. The application supports a customized forum, chat, groups, profiles, comments, articles, videos, search and game tournament results and was just released to the community with over 20000 users of interested video game players.

<http://memorycrawler.com>

A fun idea I had of which I used as a code experimentation sandbox



I took a simple idea in my head to track and document your memories and programmed an entire social networking application that allows users to write out their memories so they never forget them again. The site layout itself is not 100% appealing layout and was really just a sandbox to learn various techniques and technologies and to feed my creative mind of features to add to my memory database idea.

When you document your memories on the site, you can tag it by memory category, location, date and much more. Upon posting email events get fired off to your friends to request a recollection if you chose.

Additionally I wrote custom libraries to parse out email content sent to newmemory@memorycrawler.com that will read your emails and post them as memories or memory notes. A cron job runs every 5 minutes to accomplish the email parsing and create new records in the system.



The database to track all of the memories consists of several MySQL tables to run the entire application. I initially had some performance problems, but was able to optimize my queries and indexes by writing a custom error log explaining each query and scanning the slow query log. I also by created a custom caching classes to limit the hits to the database.

I created 120 content pages and 50 core libraries and classes. For consistency and maintainability all of my web requests go through a customized controller and framework I built.

I interfaced with google, facebook, flickr, and youtube for certain special functions in which to share and integrate your memories into other web services.

I wrote tools that hijacked a request to google.com/translate which would send a sentence to them and would return and update my translation table for the new Japanese, Chinese, or other language.

I wrote a custom PHP script that tags a header tag with a revision and reads the file and saves it off into a repository so I can control my revisions.

I created all assets using Fireworks and Photoshop as well as wrote all of the CSS.



Overall, the project helped build my initial skill set and I think it is a great thing for my work experience, even though it was simply a place for me to code ideas. I do not maintain this website anymore.

<http://runmichigan.com/store>
E-Commerce Developer

At RunMichigan.com, I built a simple dynamic file system menu and product listing, which linked to an assortment of shopping cart pages. The final check out page API's with LinkPoint credit card servers for the final purchase of digital photo CDs.

Karaoke Monster

1st place Grand Prize Winner of The 2004 Innovative Competition

I came up with an idea to create an online Karaoke machine for a competition judged by students, faculty and industry. I presented my final website which allowed a user to upload any MP3 song, find lyrics and sync each word to the timing of the streaming MP3 player. The MP3 player was built in Java to stream the MP3. Users would hit CTRL + S each time the artist sings a word and it would “replay” and would follow along the lyrics just like a real karaoke machine. I won \$1000 and competed against 20 other teams who all participated in the competition.