

**Paul Taylor**

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## **SUMMARY**

- Senior Software Developer of multi-platform technologies.
- Able to quickly adapt to proprietary systems for the purposes of ongoing research and development among data management as well as data migration.
- Able to automate repetitive tasks through intuitive interfaces by design, without sacrificing stability and security of sensitive materials nor the structure of the operation.
- By distributing the load accordingly between the database and the application server and client respectfully and utilizing caching properly, the software from the end-user perspective will respond in real-time.

## **SKILLS:**

- Apache/Nginx/IIS Web Admin
- Administrate Active Directory User and Group Policies
- SQL Server 2012/2008/SQL Server 2005/Oracle
- C#/VB .NET (Core) Developer, WCF Web Services and WinForms
- MSTest, Moq, Selenium, NUnit, JUnit, PHPUnit
- OOP, PHP5, Python, C++, MVC, Perl5
- AJAX, JavaScript, HTML5, CSS3, jQuery, jQuery UI, KnockoutJS, AngularJS 1.x, YUI 2.x, Prototype

## **OPERATING SYSTEMS:**

- MS Windows Vista/7/10/Server 2008/Server 2012/Server 2016
- FreeBSD 6.x/7.x
- RHEL/ CentOS v4-6/Fedora Core Linux
- Debian/Ubuntu/Mint Linux
- Solaris 10 Sparc/x86

## **PROFESSIONAL EXPERIENCE:**

**Wells Fargo, Chandler, AZ**

**Senior .Net developer**

**Mar 2015 – April 2024**

## Lead

- Work with Junior Developer team members to train them on developing an n-Tier architecture, design patterns and concepts (ie Dependency Injection, Inversion of Control, Factories, etc.).
- Coordinate with multiple teams and team members via MS Teams conferencing.
- Some of the Web API and Console App components utilized a Multithreaded/Task queue process design.
- Migrated our Web App from .Net Framework to .Net (Core) 6 to run in a VMWare Cloud Hosted Environment. All of the VMs shared a pool of physical memory.

## Testing

- MSTest Unit Testing for maximum Code Coverage.
- Mock/Moq wrapped Entity Framework models for Tables, Views and Stored Procedure result sets. Adapter classes to override non Moq-able classes. So that Unit Tests aren't querying any live databases, just simulated object lists in memory.
- Selenium executed locally and BlazeMeter Automated UI Testing through a centrally hosted Web Application. BlazeMeter is built on top of Selenium and is configured/scripted through a YAML file, similar to JSON but without the curly brackets using CRLF to delimit directives instead. Utilizing a combination of Server/App monitoring tools (AppDynamics/Elastics) and BlazeMeter we can determine the maximum number of concurrent users our Web Application can support and determine any bottlenecks or constraints between hardware and architecture.

## Development

- My first project at the bank included creating Visio documents using C# class object Serialization to Visio's OpenXML format.
- Developing an n-Tier ASP.Net Core (MVC) RESTful API Endpoints/Views/templates to assist Property Appraisers, multiple Residential and Commercial Lines of Business both. Isolation of the various code layers (Data, Business Logic, Presentation, etc.). The Data Layer heavily utilized EntityFramework (Core), also using the Design NuGet package for the command-line Scaffolding tool.
- Developing ASP.Net Core Web APIs, mostly for JSON payloads, also a few using XML validated with an XML Schema.
- Automated pulling multiple single page PDFs from Tableau's XML backend and concatenating the pages together into a single file with multiple pages, in real-time.
- Design and style in HTML5/CSS3/Bootstrap.
- Custom Authorization Attributes for Class/Method level Active Directory Group/Role/permission Management.
- Maintaining the backend SQL in MS SQL Server 2016 using Tables/Views/Indexes/Functions/Stored Procedures. Sometimes even Functions wrapping Custom DLLs with C# classes and methods.

- JS libraries used over various teams and projects: jQuery, jQuery UI, KnockoutJS, ReactJS, AngularJS.
  - jQuery/jQueryUI – we created a Bing Maps UI with data layers, tiles and pins to assist multiple Lines of Business Residential and Commercial in Property Appraisal.
  - ReactJS – we had a feature that allowed the Business Users to visually adjust and configure an algorithm that determined the Property Pin Gradient/Color rendered on the Map.
  - AngularJS – on another team I implemented some of the Bing Map features from my main team's Web App along with several unique other features also using Bing Maps.

### Production Support

- Server and Application Performance and Error Monitoring, first with AppDynamics, and now with Elastics.
- Through both Enterprise ServiceNow tickets or through a dedicated Inbox as well as Exchange Distribution Lists for the various levels of support techs.
- Team member bi-weekly rotation.

### Repositories

- Git/Github
- MS Team Foundation Server/Azure DevOps/Jira
- Sharepoint/Confluence/Documentum

**ExxonMobil, Houston, TX**

**Dec 2014 –**

**Jan 2015**

### **.Net - Application Support**

#### Development

- Created Powershell wrapper script for ARIS Cloud Controller's interactive command line for server monitoring the Java components running under Apache Tomcat.
- Resolved a VBA/VB Script MS Access issue where a local database needed the current year for an index/counter IDX file.

#### Administration

- Transitioned ARIS on to my support queue granting various end-user licenses based on which Active Directory group.
  - ARIS is a commercial product which is built on top of Open-Source technologies.
  - ARIS frontend is primarily Apache HTTPD which internally queries Apache Tomcat which utilizes SQL Server for its backend database.

- o Part of support in addition to granting licenses was submitting the request forms for those Active Directory groups as well as the Thin Client software installation from ARIS vendor. Dealing with both the end-user and IT Asset Management.
- Heavy Lync teleconferencing. Since our team was divided between the USA, Brazil and Thailand, conferences required some evening appointments from time to time.

### **Repositories**

- Sharepoint Sites/Lists/Wiki

**Champion Energy Services, Houston, TX**  
**2014**

**Aug 2014 - Dec**

## **.NET Developer**

### **Development**

- Resolve Production issues in SSRS reports.
- Assist in the rewrites of Stored Procedures to recouple from legacy tables and views and apply them against a newly constructed Data Warehouse.
- Wrote in-house ticketing system for internal-user reporting/tracking Production issues with IT/Developers.
- Front-end using ASP.NET Forms with Infragistics and MS Charts.
  - o General index/read/reply/create ticket logic.
  - o Metrics Dashboard dynamic to selectable date and time-unit.
  - o Created HTML5/CSS3/JavaScript from existing templates.
- Business layer consisted of a library utilized by a DataContract SOAP Web Service which the Presentation layer utilizes.
- Back-end using TSQL Scalar Functions and Stored Procedures
  - o Get/Set wrap logic all ticket related tables.
  - o Accumulate user-to-system driven events aka key points of interest.
  - o Gather metrics hourly using a SQL Job which captured Daily/Weekly/Monthly/Yearly-to-Date calculations.
  - o Functions to manipulate DateTime values, such as TRUNC() from Oracle.

### **Administration**

- Development and Production Windows Server 2008 R2 VM's with IIS.

### **Repositories**

- MS Team Foundation Server
- Sharepoint Sites/Lists/Wiki

**Stewart Lender Services, Houston, TX**  
**Aug 2014**

**June 2013 –**

## **.NET Developer**

Business logic design and implementation around Loss Mitigation, Loan Mods, Borrower Document Mailings, Collections and Home Mortgage Retention Services.

## Development

- Develop and maintain various Console Applications invoked by VisualCron jobs to perform automation. Automation ranging from XLS/XLSX importing and generation, encryption, compression, file transfers (FTP) and email notifications.
- Develop and maintain various WinForms Applications for internal operations which use LINQ/Entity Framework as well as WCF.
- Develop and maintain various Windows Services which utilize multithreading and AppDomains to modular load additional dependencies and functionality and WCF to interact with Console and WinForm Applications.
- Develop and maintain various ASP.Net/MVC (HTML5/CSS3/JavaScript) Web Applications (Telerik Controls) for operations and/or external customer facing data submission and visibility tracking. Application re-writes are being implemented for Web Application frontends.
- Develop and maintain SQL Server 2012 compliant Stored Procedures, Functions, Locking, Indexes and Normalized Tables. Stored Procedures for Reporting, Application/Program Interfaces and Dynamic SQL Rules/Predicate Logic Engine.
- .NET Frameworks developed within include 2.0, 3.5, 4.0, 4.5.1.
- Report writing for SSRS in Visual Studio 2008 - Business Intelligence Development Studio for form templating and user interactive web form reporting.
- Maintained VB.NET operations printer manager/load balancer application.

## Administration

- Configuring VisualCron server 5, 6 and 7.

## Testing

- MSTest Unit Testing.

## Repositories

- MS Team Foundation Server
- Sharepoint Sites/Lists/Wiki

Wyman Gordon, Houston, TX

May 2012 –

June 2013

.NET Web Developer

## Development

- Created live data visibility dashboards with MSCharts using C# ASP.NET 4.0 with an Oracle client

library (ODP) for real time data representation. Intensive Oracle queries and caching updated asynchronously via a scheduled task console application. Web 2.0 interfaces using HTML5/CSS3/jQuery/jQueryUI/JavaScript. ActiveX IE plugin video camera streaming feature supported within the dashboard.

- Maintain plant facility Intranet site links and content which is primarily Apache/PHP/MySQL services in Windows Server 2003, others IIS7 VB/C# ASP.NET applications.
- Created Searchable content, Reporting and Data Entry forms using C# ASP.NET for various facility contractor/visitor forms. Database dependency Oracle and SQL Server 2005.
- Created HelpDesk inventory system using C# ASP.NET. Inventory supports notes, audit logging, support ticket# attachment, file upload attachment, inventory item ID attachment. Database dependency SQL Server 2005. Intensive SQL queries and caching updated asynchronously via a scheduled task console application. Web 2.0 interfaces using HTML5/CSS3/jQuery/jQueryUI/AJAX/JavaScript.
- Maintain Excel spreadsheet Macros and cell formulas for short term solutions. .NET projects are assembled for long term solutions.
- Support existing VB.NET and VB 5/6 legacy applications.

#### **Administration**

- Built 64-bit IIS7 Windows Server 2008 R2 with .NET 4.0 and Oracle client library (ODP) for testing user projects. Installed SQL Express 2005 for project support.
- Built RHEL/CentOS 5 Linux Intrusion Detection System using snort/LAMP. Dual NIC setup, one assigned a LAN IP for connections, the other receiving packets from a VLAN with connections disabled. Configured shell environment variables to connect through our zScaler proxy which wraps all outbound/public web traffic for yum RPM package repositories.

#### **Testing**

- NUnit Testing.

#### **Repositories**

- MS Team Foundation Server

**Gore Design Completions, Ltd, San Antonio, TX**

**Dec 2011 –**

**April 2012**

**Web Developer / Systems Administrator**

#### **Development**

- OOP PHP5 MVC framework and Ajax frontend of a web-based ERP, HR, Engineering/Drawing,

Conformity known as Cockpit, with an HTML4/AJAX and native JavaScript frontend; introduced Memcached to reduce database selects and Prepared Statements into MySQL and Oracle connector classes, including Indexing the MySQL database tables.

- Decompiled source code on a Java application to use for importing sensitive employee timesheet data into our billing system Corridor (Oracle backend), which Cockpit ties into. This source was then modified to work for our ADP time system which replaced Timetrex.
- Created C# .NET SOA (SOAP/XML) frontend for Corridor API under IIS6 using LDAP authentication for other internal application usage.
- Redesigned company website using CSS3/HTML5/jQuery built on Wordpress tested on IE 7/8/9, Firefox, Opera, Safari, Chrome and the iPad. Integrated Google Maps API 3.x, reCAPTCHA and Google Analytics into the site framework. Site framework includes a schedule queue to preload images and all AJAX loaded content.
- Tied company Joomla Portal Phone Directory into the ShoreTel MySQL database hosted on a Windows server using a custom login established through forcing root access.
- Maintained Cockpit application configuration for Active Directory/LDAP authentication.

#### **Administration**

- Maintain several CentOS Linux servers, including disabling of remote root access and configuring SSHd and PAM.d for more secure logins across all web servers and the public FTP (vsftpd) facing server
- Maintain several Windows (mixed versions) Servers between Chkdsk/Defrag/Backups and server monitoring of CPU/Mem/NetIO/DiskIO resources
- Maintain package/security updates
- Configure Apache, created Cockpit Beta HTTPS VirtualHost on the Production server and used the Rewrite module to secure sensitive documents hosted on mounted share CIFS drives to deny access should the end-user's PHP Session file be a zero byte file (not logged in) or the Session not exist.
- Configure MySQL, using myqltuner.pl to adjust tmp and heap and InnoDB buffer pool sizes as MySQL was initially running on a configuration which only specified a data directory path
- Configure Nginx/PHP-FPM using file sockets for IPC
- Configure ActiveDirectory/DNS
- Installing and managing source tree within Perforce and merging Branches between Alpha, Beta and Live and rolling out Live updates, Alpha and Beta auto-synced to their repositories
- Created a series of Bash/Python scripts for server monitoring visibility utilizing the sysstat package and /proc
- Bonded second NIC interface with primary NIC interface to the same IP Address for load balancing on



the MySQL database server

- Mounted Alfresco (Linux alternative to SharePoint) Server and Storage together both via Fiber Channel and iSCSI for redundancy.

### **Business Analyst**

- Translating HelpDesk tickets for bugs and feature requests into requirements and creating a bug tracking ticket to reflect resolution status
- Any functional modifications or enhancements documented within our IT Wiki, then briefly documented within our Bug Tracking System (Mantis)

### **Support**

- Helpdesk - On call and on site

### **Repositories**

- Perforce
- SVN

**Time Gate Studios, Houston, TX**

**Feb 2011**

**– Dec 2011**

**Web Developer / Systems Administrator**

### **Development**

- PHP Smarty/Symphony/Doctrine/WordPress templates, plugins and OOP
- Perl Tool automation within Bugzilla and MediaWiki SpecialWikiValidator rules
- Created additional sub routine under Tools Perl framework to SSH into the remote Linux servers, invoke a remote Perl script to bundle site content files which differed from those in Perforce and MySQL databases, then generate an email if differing files from Perforce were found
- Internal Wiki and external site tools using jQuery
- Python Django framework for our Section 8: Prejudice Stats Portal
- Maintain and manage Timegate.com, Forums.Timegate.com, WarIsPrejudice.com, JoinSection8.com, Immortalsovereigns.com, Mortbaharloo.com in Apache/PHP/Flash/MySQL for cross-browser feature support
- Maintain and manage Healix.net in IIS/C#/Flash/.NET
- Monitor Active Directory Users and Groups and Distribution Lists through LDAP queries
- Google Analytics integration into warisprejudice.com

### **Administration**

- Migration of 3 Linux servers accounts and MySQL databases into one
- Maintain package/security updates

- Maintain daily backups
- Configure Apache
- Configure MySQL
- Configure Exim
- Configure Cloudkick for server monitoring
- Configure IIS
- Configure ActiveDirectory/DNS

#### Support

- On call and on site

#### Repositories

- Perforce

**HostGator, Houston, TX**

**Aug 2010 –**

**Feb 2011**

**Systems Administrator**

#### Support

- Working support tickets for customer various issues between Shared/Reseller/VPS/Dedicated server packages.

#### Windows Administration

- Active Directory management – DNS settings
- Accounts and User/Group policies management
- Firewall management
- IIS/FTP/ASP/.NET installations and management
- System performance monitoring
- Troubleshooting Event Viewer logs
- Backups, restores, reboots and failure recovery

#### Linux Administration

- Apache httpd.conf and .htaccess errors - Directives and Rewrite rules, troubleshooting access/error logs
- MySQL database repair/backup/restore, My.cnf configuration
- cPanel management, troubleshooting error logs
- System filesystem management, monitoring performance via I/O, Memory, CPU, Bandwidth, troubleshooting ps faux/dmesg/messages/sar logs
- IPTables and firewall rules, troubleshooting dmesg/messages logs

- Exim mail server configuration, troubleshooting mail/main logs, DNS MX, PTR and DKIM/SPF TXT records
- Named management, DNS A, CNAME and NS records
- Misc software compile/installations on VPS/Dedicated servers
- Backups, restores, reboots and failure recovery

#### Development

- PHP WordPress/Joomla/Drupal/custom strace/debugging, troubleshooting error logs.

**Universal Weather and Aviation, Houston, TX**

**Jan2009 – Aug**

**2010**

**Software Developer**

#### Sharepoint

- Linking MS SQL Server 2008 to ODBC/MySQL.
- Documentation, Document Control, InfoPath forms and service tickets

#### Windows Server 2008

- Administrate Active Directory, DNS Service, User and Group Policies
- Administrate VPN access for roaming profiles

#### SQL Server 2005/2008

- Administrate development server

#### Solaris

- Administrate platform for various workstation desktops and servers
- Administrate and compiled Apache, PHP, MySQL, Perl

#### Support

- On call and on site

#### Development

- Developed C# .NET WCF Web Services, which interface with Oracle
- Developed a Perl LWP/SSL service linking to a WebLogic JAX-WS web service
- SQL query optimization
- Tcl/Tk scripts on Ops workstations
- Tcl/Tk scripts on cluster node servers
- PHP and JavaScript and GMaps API (AJAX/JQuery/YUI v2) on the website

#### Testing

- NUnit Testing.

### **Business Analyst**

- Requirements gathering and planning

### **Quality Assurance**

- Documentation in Mercury QA/Documentum
- Writing test scripts

### **Repositories**

- MS Team Foundation Server
- CVS and SVN

**Dynamic Drilling Systems LP, Houston, TX**  
**2009**

**Nov 2007 – Jan**

### **Junior Systems Analyst**

#### **Development**

- Developed beta portal in Classic ASP/VB
- Developed 2D graph generation in Flash/ActionScript reading from AJAX/PHP/PostgreSQL
- Developed portal frontend in PHP/ native JavaScript, reading from AJAX/PHP/PostgreSQL
- Developed PDA portal frontend in Smarty/PHP
- Developed portal backend tools in C/C++/PHP export/import in CSV/LAS/PDF
- Developed web service interfaces in PHP/SOAP

#### **Support**

- On call and on site

#### **Documentation**

- MS Office (Word/Excel)

#### **IT/Hardware**

- Built and tested the FreeBSD units utilized in the field

### **Business Analyst**

- Requirements gathering and planning

### **Repositories**

- CVS and SVN

### **EDUCATION:**

ITT Technical Institute, Austin, TX  
AA - Electronic Engineering – 2002