

Matthew Martin

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Technical Skills

Likes: asp.net ms-sql java mysql php ruby javascript jquery nunit ado.net task-parallel-library iis .net-4.0 .net-4.5 visual-studio-2010 visual-studio-2012 visual-asp.net-mvc typescript requirejs visual-studio-2015

Dislikes: vb6 datajunction sharepoint ajaxcontroltoolkit updatepanel

Experience

Scrum Master and Senior Development Engineer – Burson Marsteller

python, amazon-web-services, postgresql

Managed between one and five developers, supported three code bases, shipped two major versions of our main application. My team cut AWS bills, responded including Sk-learn modeling and social media reports.

Senior Software Engineer I – Forsmarsh Group

asp.net, asp.net-web-api, wif, python, asp.net-mvc-4, wcf

Python I did maintenance development releases of a Python 3 GUI application. The application was for a research study of how people create passwords. The demonstrate that no additional bugs were introduced. To achieve this, the legacy application was refactored and put under a large number of automated unit tests.

Once the legacy application was stabilized, I created a new internal library over the TKInter library to simplify creating new screens. The application was instrumented by examining logs.

The final application included a build script, machine generated API documentation and a packaged application that could run on a machine without a pre-existing environment.

Tools used PyCharm, Eclipse, Iron Python

Libraries used unittest, nose, sphinx, pywin, virtualenv

.NET Stack Backend Development Created entity framework data tier for authentication store. Augment existing WIF (Windows Identity Framework) single sign-on HTTP/REST based ASP.NET WebAPI interface and corresponding C#, JavaScript and PHP clients.

Participated in maintenance of both WebForms, MS-Ajax and MVC 4 applications.

Created WCF service layer, including features for reducing configuration and misconfiguration risks. Also did WCF performance tuning, which included improving techniques using .NET 4.0 Task library.

Create data import tool using ASP.NET, jQuery and jQuery-UI to deliver a solution faster and with more quality assurance checks than could have been implemented.

HTML5 and TypeScript Front End Development Implemented requirejs module loading, converted existing JavaScript to TypeScript. Implemented client-side testing and underscore based widget templates. Participated in creating knockout.js client side databinding for an MVC application.

Created workflow for the periodic import of a complex Drupal-based HTML template from an external organization in a way that the same artifacts could be used well as an MVC application.

DevOps and Buildmastering I established an end-to-end automated TFS build, customized for NUnit tests. Wrote powershell scripts to automate certain build steps.

Senior .NET Developer – Benten Technologies

asp.net-web-api, asp.net-mvc, c#-4.0, tfs, entity-framework, wif

Benten was the hiring agency that employed me to work at ForsMarsh until my contract converted to full time employment at ForsMarsh. The contract and location were in the Washington DC area.

JavaScript and C# Software Developer III – CACI

javascript, tfs, asp.net, c#, .net-4.0, jquery, wcf, jquery-ui, task-parallel-library

OracleForms to .NET Application Conversion. Worked on a large team of three to six developers in an application re-write. We migrated the user interface from MVC and JavaScript driven single page application, with some work to integrate with Oracle backend using PL-SQL. Significant time spent improving web application started out with 10-15 second response for most action down to instant response time.

.NET Performance Tuning. I also did extensive performance for an application that generated Word documents, which at the beginning could run overnight and had threading problems, races, deadlocks, implemented Parallel Task Library and WCF patterns to get the reports to generate in three to five minutes, despite having a large number of reports.

DevOps and Buildmastering. Refactored legacy code and implemented automated unit and integration tests to detect breaks before release to test. Participated in management tool and build server. Saw about six maintenance releases to production and 50 iterative releases to test as a part of a broader continuous integration process.

JavaScript and C# Software Developer III – AboutWeb

asp.net, c#, javascript, tfs, iis7

AboutWeb was the hiring agency that employed me to work at CACI until my contract converted to full time employment at CACI. The contract and location of the office were in the Washington DC area.

Senior Consultant – Procentrix, Inc.

c#, visual-studio, vs2010, vs2008, subversion, team-city, flyspray, ssrs, telerik

Full Stack .NET Development I did maintenance development on a line of business application using C#, TSQL, Javascript, using Telerik components. I upgraded set of automated integration and automated unit tests (NUnit) that reduced the number of logged errors from hundreds a day to several per week.

I was lead developer on a three person team that moved about 15 releases through TSA's SDLC release process. Task included identifying opportunities for improvement for collaboration, dividing certain development tasks and code review of other developer's code. I wrote SDLC documents to support release activities. I also the application to pass C&A (Certification and Authorization).

DevOps. I set up a complete continuous integration system, initially using Visual Source Safe (VSS), Luntbuild, and Flyspray issue tracking and eventually upgraded TeamCity. I was responsible for managing the servers and workstations on the developer network, including installing operating systems, DBA tasks for MySQL.

comparison and security hardening.

.NET Application Modernization. I refactored a .NET/C#/LLBGen travel scheduler application to enable the use of a majority of the existing codebase for use with NHibernate. I did another modernization upgrade to take an ASP.NET scheduling and travel application to 2.0 and identified the legacy application's XSS and S

Data Warehouse I extracted data from a schema lacking foreign keys to a star schema so that it could be loaded into a variety of SQL Server Analysis Service

SharePoint. I created a proof of concept web part for a Sharepoint management statistics dashboard.

Software Developer III – Dynamics Research Corporation
asp-classic, asp.net, sql-2000, ssas, ssis, ssms, vs2008

ASP Classic to ASP.NET Migration. While working on MERLIN, an ASP classic application, completed both an upgrade to ASP.NET and a rewrite using ASP.NET 2.0, including custom and user controls. Created innovative 508 accessibility interface to existing MERLIN using ASP.NET 2.0 profile features.

ASP.NET and T-SQL Website. I wrote a web based data interface tool for providing an interface between an Oracle scheduling and the MS SQL server database includes a significant number of tools and reports for dealing with common data interface scenarios and exceptions.

ASP Classic Modernization. Upgraded ASP classic application to use CSS and web standards, dramatically reducing size and complexity of HTML files and improvement done using CMMI repeatable processes

DTS Support and Migration to SSIS. While working on the MERLIN contract, I provide ongoing support for troubleshooting data interface issues that arise in I have upgraded all data import packages from DTS to SSIS, the successor technology to DTS.

T-SQL Maintenance. I wrote T-SQL to implement new metrics and levels of detail into MERLIN. I refactored T-SQL queries to reduce lines of code by factor of

Microsoft SQL Administration. I automated backup and other administrative scripts for database. Implemented notification and monitoring to ensure health of

SharePoint Based Issue Tracker. Installed and configured SharePoint issue tracking system for support of software development, which was used in live product development team. Successfully used new issue trackers for coordinating internal communications in a three person distributed team.

SQL Server Analysis Service Project. I wrote prototype Microsoft Analysis Services cubes for enabling high performance business intelligence querying. Created warehouse querying.

Source Control Migration. I collaborated with administrative staff to repair and stabilize VSS repositories and prevent loss of historical source code. Set up Subversion their source code to.

Created developer oriented documentation. I wrote data dictionary and API documentation in support of maintenance tasks for MERLIN. I wrote comprehensive data interface tool.

Systems Developer I – Prince William County
vb6, ms-access, sql-server, database

VB6 WinForms Development, T-SQL Development and MS-Access Reports. I did maintenance on a closed source client-server application for the tax office thousands of heterogeneous tax bills. I wrote code to interoperate with existing application via the SQL Server through triggers, scheduled tasks, and stored procedures

I also wrote a large integrated tax billing software application to supplement the county's COTS system using MS Access, XML, MS SQL Server and custom user development cycle from soliciting requirements to design, to deployment and training.

DTS and Custom Interfaces. I wrote numerous TSQL procedures, DTS, Ms-Access and other custom import and export packages to support interfaces with various government agencies.

Data Quality. I wrote a variety of MS-Access cross tabs to find data quality errors in a Visual FoxPro system.

Education

M.A. Economics – University of Akron
wolfram-mathematica
Also worked as teacher's assistant.

BSBA Finance – University of Akron
excel

Projects & Interests

Stack Overflow – <https://stackoverflow.com/users/33264/matthewmartin>
Written 453 answers. Active in asp.net, c#, database, sql, .net and 8 other tags.
matthewdeanmartin/find_known_secrets – https://github.com/matthewdeanmartin/find_known_secrets
Scan for known secrets in your source code before you check in

matthewdeanmartin/jiggle_version – https://github.com/matthewdeanmartin/jiggle_version
Opinionated, no config build version incrementer. No regex. Drop in and go.

matthewdeanmartin/kata-python – <https://github.com/matthewdeanmartin/kata-python>
Short python exercises you could do over and over

tokipona.parser – <https://github.com/matthewdeanmartin/tokipona.parser>
c#, asp.net-mvc, regex
A Toki Pona Parser

Sole developer for a recreational linguistics project. Application can be thought of as a sentence diagramming tool for an limited artificial language.

Various mini-linguistics tools targeting toki pona, a very small fake language. Of potential interest to hobby linguists and conlang enthusiasts.

Public Artifacts

