



## Thomas Miller

### **WORK EXPERIENCE**

#### **Senior Software Developer**

**September 2009 - present**

K.T.A.I.T. Consultants | Vienna, VA

Experienced team-oriented developer specializing in enterprise wide web applications and integrations projects using PYTHON, Java, MySQL, POSTGRES, etc. Experienced working with Red Hat Enterprise Linux (RHEL), and CENTOS servers from command line. I have worked with programming teams on many database driven web applications built on PYTHON, ZEND, CSS, MEMCACHED, HTML5, AJAX, JQUERY, etc. Have extensive enterprise experience installing, configuring, upgrading, tuning systems and applications. Have also worked as a Systems Programmer. I thrive on system integration and cloud environments.

Built a “full stack” true multitenant cloud applications using NGINX, Pyramid, Celery, Redis (as Celery backend), Angular.js, uWSGI, AWS, Bootstrap utilizing Python and JavaScript skills. Used Amazon Elastic Compute Cloud (Amazon EC2) CENTO LINUX virtual machines to running web server and code LUA module for this web server. NGINX returned RESTFUL JSON to Angular.js frontend. Created crawlers with Python to also run on EC2 CENTOS VM and crawlers would insert data into a DynamoDB NOSQL database with over three billion rows in primary table. Designed DynamoDB schema so that it would not be monetarily expensive as the application scaled. This reduced costs of using the cloud based apps. Used RabbitMQ to send batch requests to DynamoDB and get instantaneous results on this huge table.

I have designed and programmed enterprise web applications for Booz.com for their intranet using PYTHON. Experience with DJANGO, Web Services (REST AND SOAP). Experienced with enterprise scale systems utilizing AWS, NOSQL, AZURE, AKAMAI, etc.

Experienced using Docker microservices for large scale enterprise applications.

#### **Senior Web Programmer**

**September 2002 - September 2009**

Lockheed Martin | Chantilly, VA



Created PHP ad-hoc query tool that let users create custom queries against Oracle database. Wrote complex stored procedures to enable query to run without using dynamic sql.

Created AGI .NET wrapper around Linux Asterisk VOIP PBX system to automatically make phone calls to system administrators in event of emergency. Designed and deployed Asterisk systems to several offices.

Led team to build OMA case management system. Responsible for application design and architecture. Used third party Infragistics Webgrid control to present data to user. Used Infragistic Excel Export component to export data. Used Aspose Excel and Aspose Word to dynamically create custom Reports with standard header and footer from shared library. Wrote complex sql procedures to generate report data. Wrote entire ad-hoc reporting tool using ASP.NET, Javascript, and SQL stored procedure that enabled user to build their own custom query. The query results were viewable as HTML in a webgrid, and could be exported to Excel.

Led team to build Wireless Guest Account Management System. Responsible for all aspects of system architecture and design. System allowed NIH staff to add temporary user accounts so guests could access the wireless network for a set period of time. The system interfaced with Active Directory and SQL Server. Wrote service to periodically reset passwords in AD. Application included ad-hoc reports and web services to share information with other agency.

Built VTS system for NIH. VTS is a Vulnerability Tracking System that enabled system administrators to view, update, and delete vulnerabilities in their part of the NIH network. Backend application extracted data stored in XML files from SARA and ISS security scanners and performed XSLT transformation to standard XML format that was parsed. The parsed data was inserted into the database.

### **Computer Programmer**

**January 2002 - September 2002**

EDP Contracting Services | McLean, VA

*Management Consulting Services*

Built payroll application for Ceridian Payroll Services using PHP, PYTHON, and MYSQL technologies. Responsible for designing and coding 401k, NACHA Direct Deposit, Tax, New Hire, and Check Reconciliation export files that would be transmitted to banks and other institutions across the country. Was responsible for programming a Windows service that would monitor a directory for input



files, call a component that would parse the input file, format the data, perform calculations, and finally write out a file that was suitable to send to the institution. Component would then update database with data that was transmitted to bank so reports could be generated at a later time. Coded pages using that would read data from database to produce web report and generate PDF report if requested. Was also responsible for designing and building an application that would gather XML data and deposit XML into message queue. From there Biztalk would reformat and validate XML and transfer XML data to another department at Ceridian.

### **Senior Web Programmer**

**February 2001 - January 2002**

Pelican Technology Partners/EDP Contracting | Reston, VA

*Management Consulting Services*

Contracted to build website where financial advisers could log in and request approval to personally trade securities.

### **Web Developer**

**June 1999 - February 2001**

IDEV | Silver Spring, MD

*Internet Services*

Programmed many database driven ASP web applications using variety of Javascript, POSTGRES, MySQL, Perl and PHP. Worked on over fifty high traffic websites, including etienneaigner.com, stuartweitzman.com, aabb.org, and haircuttery.com.

### **Systems Programmer**

**April 1999 - June 1999**

SALLIE MAE | Reston, VA

*Banking*

Programmed and administered for large site using ASP, SQL Server, IIS, MTS, Visual Basic and VBscript. Helped team complete building web application where users could apply for a student loan online at salliemae.com. Microsoft Transaction Server (MTS) would make calls to bank, university, credit bureau, and SM databases to verify information and transfer funds.

### **Internet Applications Engineer**

**February 1999 - April 1999**

Intermedia | Silver Spring, MD

*Internet Services*



Troubleshoot ASP code and used Cisco Local Director to load balance servers for nationally known high-capacity Ecommerce websites such as [www.marthastewart.com](http://www.marthastewart.com), [staples.com](http://staples.com), and [motleyfool.com](http://motleyfool.com).

### **Consultant**

**January 1999 - February 1999**

RHI Consulting | McLean, VA

*Management Consulting Services*

Migrated medium sized office from CCMail to Microsoft Exchange.

### **Programmer**

**September 1997 - October 1998**

Americorps | Princess Anne, MD

*Nonprofit Charitable Organizations*

Designed and programmed website for local Americorps chapter. Used Notepad and DIDA to hand code HTML, Javascript, Visual Basic, and ASP. Administered NT network and IIS. Taught high-school students in the Upward Bound Program how to create HTML pages and publish them to the web. Used Photoshop, Illustrator, ImageReady, and Macromedia Fireworks etc to create and edit images.

### **Web Developer**

**January 1997 - September 1997**

TAM | Salisbury, MD

*Management Consulting Services*

Built Websites for small businesses in local area. Used HTML, VBscript, IIS, NT4, Access, SQL Server, Interdev and ASP to successfully build sites.

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## **EDUCATION**

**January 2012**

Comptia SECURITY+ | Chantilly, VA

*Achieved OCA certification in 2004*

**January 2004**



Oracle Certified Associate - OCA | Chantilly, VA

*Achieved OCA certification in 2004*

**December 1999**

Microsoft Certified Systems Engineer - MCSE | Silver Spring, MD

*Achieved MCSE certification in 1999*

**July 1995**

Salisbury State University | Salisbury, MD

*Majored in English*