

**Jason Michael**

Address **:** 812 Arthur St

Arlington, TX

76013

Mobile **:** 817 714-7976

Email **:** jason@jason-michael.com

**OBJECTIVE**

I want to be plugged in to DevOps, a constant consumer of technology, developing solutions that deliver continuous integration and a fault-tolerant pipeline for deploying and maintaining services in the cloud. I want to be a principle contributor at an organization that values my integrity, engagement and experience doing what I love every day.

**CURRENT EMPLOYMENT**

**Travelocity.com, Southlake, TX**

Senior Systems Engineer

***Core Responsibilities:*** I built and currently maintain a continuous integration engine which allows developers to have an interface into Certification and Production Deployment. The engine is built on Ruby on Rails and with a MySQL and Redis backend and integrates with activemq and Puppet.

***Other Duties:*** I support continuous integration of Java 7 packages on Tomcat 7 deployed to a cloud built on VMware VSphere which serves travelocity.com and hundreds of supporting services (SOA).

**EDUCATIONAL DETAILS**

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| **Course** | **College/University** | **Year** |
| M.S.  (Software Engineering) | DePaul University, Chicago IL. | 2009 |
| B.S.  (Computer Science Engineering) | University of Texas, Arlington TX, | 2003 |

**SOFTWARE AND HARDWARE SKILLS**

* Programming Languages **:** C, C++, Java, PHP, Ruby, Python, Perl, Bash
* RAD Tools **:** Visual Studio, Netbeans, Eclipse
* Databases **:** MySQL, Postgresql, Oracle, SQLite, SQLServer
* Working Platforms **:** Linux, Windows, Puppet, VMware

**PROFESSIONAL EXPERIENCE**

**Travelocity.com, Southlake TX as a Senior Systems Engineer**

**(August 2012 -)**

Projects:

***Stratus – a Continuous Integration Platform***

Stratus is a Ruby on Rails application which presents a user-friendly frontend to developers for continuous integration of software in the cloud. Users are presented with a secure web application which allows them to trigger build/deployment of packages to a cloud via puppet and activemq. The system uses a customizable pipeline which can be tailored to different deployment workflows at runtime. Packaging is done by Jenkins - Stratus communicates with Jenkins using a RESTful API. The system also employs a multi-threaded concurrent backend using Sidekiq and Redis to ensure a fault-tolerant workflow, sending alerts in email, SMS and SNMP to stakeholders if faults occur. Stratus provides a RESTful API so that other services in the cloud can plug in as well.

Core Responsibilities:

* Design and Coding of the application in Ruby on Rails using JQuery, Coffeescript, HTML5, CSS
* Deployment of the site via RPM including gems and ruby/rails/apache dependencies
* Test-Driven using RSpec/Cucumber/Selenium

***Release Engineering***

I supported continuous integration of the travelocity.com website built on Java 7 and Tomcat 7 and a hundred or so services which support it in a SOA. We build on Jenkins, we deploy with Puppet and activemq, we use RHEL servers on a VMware VSphere/VCloud cloud.

Core Responsibilities:

* Build VM’s in VSphere
* Create and manage projects in Jenkins to build RPM’s of applications in variety of languages including Java and Ruby on Rails
* Code puppet manifests to define instances
* Manage IS/OOS using an F5 (including maintaining scripts which integrate with the F5)
* Create scripts in ruby/perl/bash to simplify operations, define an interface and enforce standards
* Deploy and monitor deployments using Stratus, puppet, activemq etc.

**OnePhone Inc, Irving TX as a Principal Mobile Developer/Designer**

**(April – May 2012)**

Projects:

***OnePhone – an telecommunications for delivering long distance calls over VoIP***

OnePhone was a startup seeking capital investment to produce a service for international travelers to eliminate roaming charges by converting the standard international call to VoIP. I worked for the group as the principal designer and developer of the IOS6 app. I also designed and built a proof of concept of the backend system, which included a Ruby on Rails application providing a RESTful interface to the mobile app, as well as an adapter to an Erlang service which connected to the BSS and VoIP trunk end.

Core Responsibilities:

* Design and coding of an iPhone Application for IOS7 using XCode 4
* Design and coding of a Ruby on Rails Application which interfaced with the mobile app
* Design and coding of an Erlang service which served as an adapter between a Ruby on Rails RESTful service and the VoIP connection

**Interop Technologies, Irving, TX as a Senior Systems Engineer**

**(Dec 2009 – August 2012)**

Projects:

***Impress - a Site Survey Application***

Impress is a Ruby on Rails application which gathers critical details about a customer where a hardware/software installation is to take place. Both customers and internal engineers can login to the site and enter information, and track changes. Upon completion of the project, the data set can be turned over to the Operations Group, which utilize the tool to maintain the product after installation.

Core Responsibilities:

* Design and Coding of the application in Ruby on Rails/JQuery javascript/html5/CSS
* Deployment of a hundred or so gems and plugins into the Ruby on Rails environment
* Test-Driven development utilized throughout the project using RSpec

***Puppet/Foreman***

Puppet is a system configuration management tool built in Ruby. Foreman serves as a frontend for Puppet and enables kickstarting servers to systems specified by Puppet. I researched and made a proposal to management for deploying Puppet/Foreman to replace an outdated kickstart system consisting of many loosely-coupled web scripts.

Core Responsibilities:

* Server selection and configuration
* Foreman configuration, including user accounts, creation of hosts, mcollective and facter, and deployment of puppet client to servers
* Testing and delivery to Operations for maintenance

**Previous Employment with Automatic Data Processing, Bedford, TX as a Software Engineer**

**(March 2003 - Dec 2009)**

Projects:

***Hino MDA***

Hino MDA is an application which allowed Hino Heavy Truck dealers to manage their parts inventory electronically. The software utilized SOAP protocol for message exchange between a proprietary Dealer Management System written in PHP with a PostgreSQL backend and Hino Inc.

Core Responsibilities:

* Design and Coding in PHP
* Deployment of daemons on DMS which gathered data nightly for delivery to Hino
* Use of Linux XML utilities for managing XML messages including validation and packing/unpacking data
* Use of XSLT for data extraction

***w.e.b.Suite***

w.e.b.Suite is a web-based Dealer Management System written in PHP with a PostgreSQL database backend. As a developer, I worked to build and maintain pages for w.e.b.Suite, which either presented information to customers in the form of reports (which exported to PDF), or offered a form to the customer for data entry. Early on, the database backend was a legacy PICK system, but a conversion to PostgreSQL was performed, which I assisted in developing.

Core Responsibilities:

* Specification documentation
* PHP, PostgreSQL, and PICK coding and testing
* Deployment to CVS system, build to final executable from automated build system.