

Justin Walrath

(607) 346-6569 walrathjaw@gmail.com Bloomington, Illinois

Profile

Energetic software engineer with experience in client based web app development, system scaling, automation, and large enterprise services.

Experience

SYSTEMS ANALYST, STATE FARM INSURANCE | BLOOMINGTON, IL – MAY 2013 - PRESENT

Design, develop, document, and service business critical Java EE based web services and applications.

Use Spring Framework and Apache CXF to build and support SOAP based web services that provide a common point of access for multiple lines of business to access various services and data stores. My area works with multiple areas to build web services and applications with robust and encompassing interfaces. This reduces the number of functionally similar interfaces across the enterprise. The development process starts with an architect team creating a high level design of the individual component services identifying and defining interfaces that are ultimately going to be used. Using my expertise, I then take those high level designs and iteratively build the component while maintaining contact with both the consumed and consuming services. Using test-driven development practices along with tools like JUnit framework and strong Object Oriented programming patterns, I produce high quality solutions to meet the project's specifications.

Managed a development team in an internal research project. After having a winning product in a yearly developer hack day competition, interest was shown within the research and development area and we were sponsored to move forward with the idea as a proof of concept. The original idea included a backend API written using a Java and Spring Boot based web service backed by a MySQL database deployed to a virtual linux machine. This was paired with an Android App that my team also developed which connected to the API and communicated back and forth producing a functional prototype for a presentation at the end of the competition. When the sponsorship started I architected a modular and scalable version of the backend API based around function specific micro-services and swappable adapter layers for vendor based connections. We conducted research to transition the project to connect to a Hadoop based framework to improve data utilization as well as making contact with a vendor and consuming their API.

Providing continuous preventative and responsive support using tools like Splunk and SoapUI to ensure that my teams services and applications don't impact other areas of the enterprise and ultimately the customers.

SOFTWARE ENGINEER, NORMAL GRAVITY DEVELOPMENT | BLOOMINGTON, IL – JAN 2014 - PRESENT

Design, develop, document, and maintain RESTful web services using a variety of platforms and technologies including both Play and Spring frameworks as well as Apache CXF.

Committed to continuous learning, I've tackled projects with wide ranging technologies. I worked on maintaining a LAMP based sales database system, I helped design and build a custom opinion voting message board written with PHP, Slim framework, using MongoDB. For that project I also created a Python based email subsystem for credential dissemination. Using Play framework, Scala, Slick, and PostgreSQL, I built a fully tested backing API an ecommerce web platform. This was used to manage the product catalog, sales information, and customer data freeing up the front end infrastructure to manage customization details.

Promoted the use of test-driven development from front to back. With PHP I introduced PHPUnit to projects to increase the general code quality. For Python I introduce a project structure designed for efficient use with Nostest to ensure higher quality and reusable functions. With Scala I heavily use Scalatest, Mockito, ScalaMock, and Scoverage for unit and business-driven testing helping drive out use cases and quality.

Building a scalable automated system to manage application configuration, update traffic routing, and code delivery using Python, Docker, and Ansible. Using the twelve-factor app methodology to make easily configurable services and connections, I was able to make a language and technology agnostic deployment system. Currently able to deploy a web service by running a simple command from my workstation.

Manage linux based virtual and physical machines for both company and clients. The virtual machines are all cloud based and are provisioned as needed. Once provisioned I configure and install required software solutions as required. I have managed the migration of a windows server based network share to an Ubuntu, Samba and ZFS raid based server. From the selection of the hardware, installing of the hard drives, configuring of software, minimal downtime installation, and the setting up of an offsite backup solution, I communicated with the client and ensured that their needs and requirements were met.

IT INTERN, INTELLIGENT DIRECT | WELLSBORO, PA – FEB 2012 - JAN 2013

Developed server monitoring software to alert developers of service down times and system usage statistics. Built using C#.net, this included an email subsystem that was configurable to allow developers to configure schedule and recipients of the alerts.

Education

Mansfield University, Mansfield, PA

B.S. Computer Science with math minor (cum laude), 2013

Skills

Professional Languages:

Java, Scala, Python, JavaScript, C#.net

Technical:

Linux system administration, ZFS, PostgreSQL, MySQL, MariaDB, MongoDB, Docker, Play2 Framework, Spring framework, git, SVN, Splunk, eclipse, Xamarin, Android SDK, SBT