**Aswini Prasad Yalavarthy**

**Summary:**

* Over**7+ years** of IT experience in design, development, testing and implementation of various **stand-alone** and **client-server architecture** based enterprise application software using various technologies, analyzing complex business requirements & mapping them to system specifications.
* Good experience in developing web applications implementing **Model View Control architecture** using **Django web application frameworks**.
* Designed and implemented large scale business critical systems.
* Experience in developing web-based applications using **Python 3.4/2.7, Django 1.9/1.7**
* Developed web applications and **RESTful web services** and **APIs** using **Python Flask**, **Django,**and **PHP**.
* Experience in implementing with server side technologies with restful API and MVC design patterns with **node JS and Django** framework.
* Good knowledge of web services with protocols **SOAP, REST.**
* Good knowledge of server **Apache Tomcat, Web logic.**
* Familiar with **C++11 and C++ 14** concepts.
* Experienced in working with various Python IDE’s using **PyCharm, PyScripter, Spyder, PyStudio and PyDev.**
* Implemented different python libraries **BeautifulSoup, numpy, scipy, pytables, matplotlib, python-twitter, Pandas data frame, Pyvmomi, Fabric and urllib2** in various tasks.
* Experienced in NoSQL technologies like **MongoDB, CouchDB Cassandra, Redis** and relational databases like **Oracle, SQLite,PostgreSQL and MySQL databases.**
* Experience on Web development using **HTML4/5, CSS/CSS3, JavaScript, JQuery, Angular JS, AJAX, XML** and **JSON** by following W3C standards.
* Experience in developing applications using amazon web services like **EC2, Cloud Search, Elastic Load balancer ELB, S3, CloudFront, Route 53.**
* Extensive development experience in **Java, Struts, JSPs, Servlets, taglibs, Hibernate, JDBC, HTML, JavaScript, SQL, XML and JSON.**
* Developed J2EE applications on IDE's like **Eclipse, My Eclipse, Google GWT, and Rational Application Developer**
* Good Experience in debugging the issues using **pdb**
* Proficient in developing multi-threaded web services using **CherryPy&bottlePy** framework.
* Extensive experience in developing applications using **Java API, Swing, HTML 4/5, Flex, JavaScript, CSS2/3, JQuery, JDBC, JSF, JMS, XML.**
* Leveraging queueing architectures with **RabbitMQ**for scalability, performance and building.
* Knowledge in working with continuous deployment using **Heroku and Jenkins**.
* Proficient in writing unit testing code using **Unit Test/PyTest** and integrating the test code with the build process.
* Worked on Python Testing frameworks like **zope, pytest, nose and Robot framework.**
* Well versed with **Agile with SCRUM, Waterfall Model** and Test driven development methodologies.
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views and triggers.
* Integrated applications developed in various technologies by using web services.
* Most of the applications were developed with **Python, Django, and PostgreSQL** using **JIRA (Agile)** methodology.
* Hands on experience in using version control systems **Git**and **GitHub.**
* Knowledgeable in **Angular JS** and **Node JS.**
* Experienced in using Message Brokers like **RabbitMQ, Kafka** and Messaging libraries like **ZeroMQ**.
* Development Experience in **Linux (CentOS, Debian, Ubuntu), Mac OS**
* Familiar with **Shell Scripting (bash), Perl**.
* Knowledge of web servers - **Apache, Nginx and load balancers - Haproxy**
* Hands on experience of **Git, SVN, CVS**
* Performed code reviews and implemented bestPythonic programming practices.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | Windows 98/2000/XP/7,8, Mac OS, UNIX and Linux CentOS, Debian, Ubuntu |
| **Programming Languages** | Python, Java, C, C++, C# and PHP |
| **Web Technologies** | HTML/HTML5, CSS/CSS3, XML, DOM, AJAX, jQuery, JSON and Bootstrap. |
| **Frameworks** | Django, Flask, Pyramid, PyJamas, Jython, Angular JS, Node JS, Spring, Hibernate |
| **Webserver** | Apache HTTP webserver, WebLogic, WebSphere, JBoss and Apache Tomcat |
| **IDE** | Eclipse, webstorm, Sublime Text, Brackets, Pycharm, Pystudio, Pyscripter. |
| **Analytic Tools** | Google Analytics Fiddler |
| **Cloud Computing** | AWS EC2, S3, RDS(MY SQL), SQS |
| **Deployment Tools** | Heroku, Amazon EC2, Jenkins and Fabric |
| **J2EE** | JDBC, JNDI, JSP and servlets |
| **Databases** | Oracle 8i/9i/10g/11g, MySQL, Sqlite3, Cassandra, Redis and Mongo DB, CouchDB |
| **Testing Tools** | Bugzilla, Jasmine, Pyunit, JIRA and Junit, zope, pytest, nose, Robot |
| **Protocols** | TCP/IP, HTTP/HTTPS, SOAP |
| **Miscellaneous** | Git, SVN, CVS |

**Beckman Coulter Inc, Brea, CA**  **Feb 2016 – Till date**

**Sr Python Developer**

**Responsibilities:**

* Involved in software development life cycle (SDLC) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
* Developed entire frontend and backend modules using **Python on Django Web Framework**.
* Designed the front end of the application using **HTML5, CSS3, AJAX, JSON and JQuery.**
* Developed **RESTful services** using **Django**.
* Worked on **backend** of the application, mainly using Active Records.
* Designed and developed communication between client and server using Secured Web services.
* Developed and tested many features for dashboard using **Python, Java, Bootstrap, CSS, JavaScript and JQuery.**
* Writing backend programming in **Python3.4/2.7.**
* Used **JavaScript and XML** to update a portion of a webpage.
* Developed consumer based features and applications using **Python and Django** in **test driven Development** and pair based programming.
* Successfully **migrated the Django database** from **SQLite3 to PostgreSQL** with complete data integrity.
* Performed Unit testing, Integration Testing, GUI and web application testing using **Rspec**.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML5, CSS3, JavaScript, JQuery and Angular JS**.
* Worked on **Jenkins** continuous integration tool for deployment of project.
* Worked on changes to open stack and **AWS** to accommodate large-scale data center deployment.
* Created a new **C++11 backend stack** built on open source libraries.
* Created interactive data charts on Customer portal web application using High charts JavaScript library with data coming from **Apache Cassandra**.
* Worked on front end frame works like **CSS, Bootstrap** for development of Web application.
* Worked in **MySQL database** on simple queries and writing Stored Procedures for normalization.
* Deployed the project into **Jenkins using GIT version** control system.
* Learned to index and search/query large number of documents inside Elastic search.
* Used **Amazon Cloud EC2** along with **Amazon SQS** to upload and retrieve project history.
* Creating invitation flow for customers to use the client portal for monitoring applications.
* Created the environment specific settings for a new deployment and update the deployment specific conditional checks in code base to use specific checks.
* Experience in project deployment using Heroku/Jenkins and using web services like **Amazon Web Services (AWS) EC2 and AWS S3.**
* For the large data management used **TFS** and delivered reliable end product.
* Used advanced packages like **Mock, patch and beautiful soup (b4)** to perform unit testing.
* Worked on translation of web pages to different languages as per client requirements.
* Updated the client admin tool to have the new features like support for internalization, support for customer service and etc.
* Collaborate with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
* Worked on updating the existing clip board to have the new features as per the client requirements.
* Used many regular expressions in order to match the pattern with the existing one.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Taken part in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Improved code reuse and performance by making effective use of various design patterns.

**Environment: Python 3.4,2.7, Java 1.7, Django 1.9/1.7, HTML5, CSS3, XML, JSON, MySQL, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Puppet,Postgre SQL, Amazon s3, Jenkins, Mongo DB, Elastic search, T-SQL, Beautiful soup, TFS, nose, C++11, Eclipse, Git, GitHub, Linux.**

**Merrill Corporation- St. Paul, MN**  **Feb 2015 to Jan 2016**

**Full Stack Python Developer**

**Responsibilities:**

* Participated in all stages of Software Development Life Cycle like Planning, Analysis, Design, Implementation and Testing.
* **Model View Control architecture** is implemented using **Django Framework** to develop web applications.
* Implemented Business logic, worked on data exchange, processed **XML** and **HTML** using **Python 2.7** and its familiar framework **Django**.
* Worked on **Django API's** for accessing the database.
* Developed **Views** and **Templates** with **Python** and using **Django's view controller** and template language, Website interface is created.
* Designed and Developed User Interface using front-end technologies like **HTML, CSS, JavaScript, JQuery, AngularJS, Bootstrap** and **JSON.**
* Used **IBM DB2 SQL** stored procedures and **UNIX Shell Scripts** for importing/exporting Data and Conversions.
* Created **Django dashboard** with custom look and feel for end user after a careful study of Django admin site and dashboard.
* Python **Unit test library** was used for the purpose of testing many programs on Python and other codes.
* Worked on **selenium testing framework.**
* Performed different testing methods like **unit testing, Integration testing, web application testing** and **selenium testing.**
* For the manipulation of data from the database various queries using **SQL** were written and created a database using **MYSQL.**
* To build and populate **DB** and to ensure the standards, the team of **QA** was also collaborated.
* Used **AJAX** for better interactivity for the end user and easier navigation and AJAX is compact.
* Implemented **RESTful Web Services** for the data transportation between multiple systems.
* Built various graphs for business decision making using **Python matplotlib library.**
* Used Python library **Beautiful Soup** for web Scrapping.
* Worked on **Jenkins continuous integration tool** for deployment of project.
* Deployed the project into **Jenkins** using **GIT version control system.**
* Created **Git repository** and added to **GitHub project.**
* Lead effort to modernize our codebase (using modern C++11/14)
* An application was developed in **Linux environment** and dealt with all of its commands.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.
* Implemented automate scripts to back up the old records using **MongoDB export command** and transfer these backup files into backup machine using **ftplib**.
* Maintaining multiple copies of data in different database servers using **MongoDB Replication concept.**
* Experienced in **Linux shell commands** and **command line utilities.**
* Worked in the team and faced challenges during the project development and production process. Capable to learn new technologies and to work in the team environment independently.
* Developed and configured test automation networks and execute stability and performance tests.
* Facilitated **Sprint Planning**, **Daily Scrums** and **Retrospectives** if the **Scrum Master** is not able to do so for any reason.

**Environment: Python 2.7, Django, JavaScript, HTML, CSS, JavaScript, Angular JS, JQuery, JSON, AJAX, XML, JSON, IBM DB2, SQL, MySQL, Bootstrap, Restful Web Services, matplotlib library, Beautiful Soup, Jenkins, Git, GitHub, Linux, Eclipse.**

**HealthSouth- Birmingham, AL** **Aug 2013 to Jan 2015**

**Python/Django Developer**

**Responsibilities:**

* Actively involved in Initial software development life cycle (SDLC) of requirement gathering and also in suggesting system configuration specifications during client interaction.
* Designed and developed the **UI** of the website using **HTML**, **XHTML**, **AJAX**, **CSS** and **JavaScript**, **Bootstrap** and **JQuery.**
* Developed entire frontend and backend modules using **Python** on **Django Web Framework.**
* Handled Business logics by **backendPython programming** to achieve optimal results.
* Used advanced packages **Numpy** for sophisticated matrix based calculations.
* Generated various graphs for business decision making using **Python matplotlib library**.
* Tested various regular expression in **URL Dispatchers** in **Django.**
* Improving preexisted client based applications by introducing **Django framework** in backend.
* Designed user friendly Interface using **Bootstrap framework**.
* Implemented **AJAX** to update necessary section of webpages and hence, avoiding the need for reloading the entire web page.
* Created entire application using **Python, Django, MySQL** and **Linux.**
* Experienced in **Agile Methodologies** and **SCRUMProcess.**
* Executed asynchronous tasks with help of **Celery** and **RabbitMQ.**
* Participated in implementation, design, development and testing stages of projects.
* Design, model and optimize relational databases tables in **MySQL.**
* Modified queries, functions, cursors, triggers and stored procedures for **MySQL database** to improve performance, while processing data.
* Developed Python application using **Mongo DB**in the backend**.**
* Optimizing, monitoring, and understanding of **MongoDB** in system setting areas as well as by modeling data as required for application
* Created scripts in Python for manipulating, parsing and converting data in excel sheets.
* Design and developed applications to be **cross-browser** and **cross-platform** compatible.
* Extensive code reviewing using **GitHub pull requests**, improved code quality, and also conducted meetings among peer.
* Deployed the project into **Heroku** and also used **Github version control system**.
* Followed best practices and standards throughout the development of the project, while implementing various design patterns.
* Modified existing webpages to enhance the usability.
* Involved in debugging the applications monitored on **JIRA** using **Agile methodology.**
* Maintained **Puppet rspec** for testing various unit/system automation schemes
* Worked with team of Python developers while developing applications

**Environment: Python, Django, HTML, CSS, XML, AJAX, MySQL, JavaScript, JQuery, CSS Bootstrap, GitHub, Linux, Pycharm, Jasper Reports, JIRA, Eclipse, Linux, Shell Scripting.**

**GuideOne Insurance- Des Moines, IA** **Nov 2011 to July 2013**

**Python Developer**

**Responsibilities:**

* Involved in software development life cycle (SDLC) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
* Developed entire frontend and backend modules using **Python on Django Web Framework**.
* Involved in designing user interactive web pages as the front end part of the web application using various web technologies like **HTML, JavaScript, Angular JS, JQuery, AJAX** and implemented CSS for better appearance and feel.
* Knowledge of cross-browser and cross-platform development of HTML and CSS based websites in Windows like IE 6, IE 7, IE 8 and FF.
* Interactive in providing change requests, trouble reports and requirements collection with the client.
* Actively involved in developing the methods for Create, Read, Update and Delete (CRUD) in Active Record.
* Used **Numpy for Numerical analysis** for Insurance premium.
* Used **Robot Test automation framework** for Testing of the GUI of the application.
* Implemented and modified various **SQL queries** and Functions, Cursors and Triggers as per the client requirements.
* Managed code versioning with **GitHub, Bit Bucket** and deployment to staging and production servers.
* Implemented **MVC architecture** in developing the web application with the help of Django framework.
* Used **Celery as task queue and RabbitMQ, Redis** as messaging broker to execute asynchronous tasks.
* Designed and managed API system deployment using fast http server and **Amazon AWS architecture.**
* Involved in code reviews using GitHub pull requests, reducing bugs, improving code quality, and increasing knowledge sharing
* Implemented monitoring and established best practices around using elastic search.
* Install and configuring monitoring scripts for **AWS EC2 instances**.
* Implemented task object to interface with data feed framework and invoke database message service setup and update functionality.
* Working under **UNIX environment** in development of application using Python and familiar with all of its commands.
* Developed remote integration with third party platforms by using **RESTful web services**.
* Automated Production tasks.
* Updated and maintained Jenkins for automatic building jobs and deployment.
* Used **Apache CQ, Team Foundation Server** for the content management.
* Used many regular expressions in order to match the pattern with the existing one and store them in data base on a chronological basis.
* Implemented code to perform CRUD operations on **MongoDB using PyMongo module**.
* Improved code reuse and performance by making effective use of various design patterns and refactoring code base.
* Involved in development of a Map based application for integral analysis purpose.
* Updated and maintained **Puppet rspec unit/system test.**
* Involved in analysis and design of the application features.
* Experience in debugging and troubleshooting programming related issues.
* Worked in **MySQL database** on simple queries and writing Stored Procedures for normalization.
* Deployment of the web application using the **Linux server**.

**Environment: Python, Django, HTML, CSS, XML, KML, MySQL, JavaScript, Angular JS, JQuery, CSS Bootstrap, RESTful, MS SQL Server, MongoDB, Elastic Search, Ubuntu server, Apache CQ, TFS, Amazon s3, Jenkins, Map Box, Mongo DB,zope, pytest, Robot, GitHub, Bit Bucket, Linux, and Windows.**

**SONATA SOFTWARE LTD-India**  **Dec 2009 to Oct 2011**

**Python/JAVA Developer**

**Responsibilities:**

* Involved in requirement analysis, functional specifications and design.
* User interface is decoupled using **Spring MVC architecture with Struts** implemented already as the frontend.
* Worked on the Presentation tier using Struts framework and designed Actions, Action Form, Helpers and related configuration for each use-case.
* Used standard Python modules e.g. csv, robot parser, itertools, pickle, jinja2, xml for development
* Modified the SQL queries and techniques for improving the performance of queries.
* Developed Server side validation checks using **Struts Validators and Java Script** validations.
* Deployed and tested on **WebSphere Application Server**.
* Worked with **XML, XSL to develop UI** for the application.
* Developed web Components using **JSP, Servlets under J2EE Environment**.
* Front end graphical user interface is designed using **HTML, JSP, XML and CSS, AJAX.**
* Used Tomcat as application server on development environment and JBOSS on test and Productionenvironment.
* Developed Application on IDEs like **Eclipse, Rational Application Developer, Rational SoftwareArchitect** andVersion control tools like **Perforce P4V, CVS, SVN, Visual SourceSafe and Team foundation server.**
* Developed views and templates with **Python and Django's view controller** and templating language to createa user-friendly website interface.
* Designed, developed and bundled various small financial utilities using **JAVA, Hibernate, XML parser SAX** which was distributed to different development teams.
* Created Connection Pools in WebSphere and configured as needed.
* Responsible for Parsing **XML data using XML parser** and Testing, fixing of the bugs and coding modifications.
* Configured SQL Developer to work with oracle and Oracle to work in the complicated queries required forthe DAO layer development.
* Responsible for investigating the issues, defects, determining problem root cause, formulating correctiveaction recommendations & implementing them.
* Used UML to design various data models including data flow diagrams, work flow diagrams and interactiondiagrams.
* Designed Class Diagrams, Sequence Diagrams depicting flow of the application using Rational Rose.
* Self-motivated team player with good Analytical, Logical and Problem Solving ability.
* Created data base tables, functions, stored procedures and wrote prepared statements using PL/SQL.
* Participated in Daily stand-up meetings with project manager, Team Lead, co-developers, communicatedwith testers and resolved trackers.

**Environment: Spring, Hibernate, Struts, JQuery, AJAX, Sencha, ExtJS, JavaScript, backbone.js, Java Script, Spring IOC, Oracle 11g, CRUD, PL/SQL, JDBC coherence, Web Sphere , Struts, JSP.**

**Intergraph-India**  **May 2008 to Nov 2009**

**JAVA/J2EE Developer**

**Responsibilities:**

* Involved in gathering business requirements, analyzing the project and created UML diagrams such as UseCases, Class Diagrams, Sequence Diagrams and flowcharts for the Optimization module using **Microsoft Visio**.
* Developed web components using **JSP, Servlets, and JDBC**.
* Implemented database using **MySQL.**
* Implemented J2EE standards, MVC2 architecture using **Spring Framework**.
* Developed and implemented the MVC Architectural Pattern using Spring Framework including JSP, Servletsand Action classes.
* Used **JSP, JavaScript, JQuery, AJ**
* Client pages are built using **HTML, JSP, XML** to interact with users, and the business logic is implementedusing Servlets and Java Beans.
* Used **Hibernate framework for DAO layerAX, CSS, and HTML** as data and presentation layer technology.
* Set up **JBoss Server, Configured MySQL Cluster in Linux OS** and installed Open Call XDMS.
* to access the Oracle database Used JavaScript for client sidevalidations.
* Involved in writing **POJOs, hbm and hibernate.cfg files** and configured the same for application development.
* Extensively used **SQL, PL/SQL** in constructing views, indexes, stored procedures, triggers, cursors, functions,relational database models.
* Used **JavaScript, JQuery, Ajax** to control display as per user selection and avoid server round trips withunnecessary data and as required by application.
* Coding of **SQL, PL/SQL**, and Views using IBMDB2 for the database.

**Environment: JAVA J2EE, Spring MVC, Spring Security, Spring JDBC support and Hibernate, Hibernate Validations, JSTL, XML, HTML, CSS, JSP, JavaScript, PL/SQL, Ajax, MVC, MySQL**

**Education:** Bachelor of Technology, Electronics and Communication Engineering, 2008.