**Vinod reddy**

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**Professional Summary:**

* Over 8 years of IT Experience in designing, developing, testing and implementing of various stand-alone and client-server architecture based enterprise application software in **Python** on different domains.
* Skilled experience in **Python** with proven expertise in using new tools and technical developments (libraries used: libraries- Beautiful Soup, Jasy, numpy, Scipy, matplotlib, Pickle, PySide, python-twitter, Pandas dataframe, networks, urllib2, MySQL dB for database connectivity) to drive .com
* Good experience in developing web applications implementing Model View Control architecture using Django**, Flask, Pyramid and Zope** Python web application frameworks.
* Experienced in working with various Python Integrated Development Environments like **Net Beans, PyCharm, PyScripter, Spyder, PyStudio, PyDev and Sublime Text.**
* Strong expertise in development of web based applications using **Python, Django, HTML, XML, Angular JS, CSS, DHTML, JavaScript, JSON and JQuery.**
* Good knowledge on front end frame works like **CSS Bootstrap.**
* Having experienced in Agile Methodologies, Scrum stories and sprints experience in a Python based environment, along with data analytics, data wrangling and Excel data extracts.
* Sound experience in Core **Java and Object Oriented Programming** using concepts like Multi-Threading, Exception Handling and Collections.
* Highly proficient in the use of T-SQL for developing complex stored procedures, triggers, tables, user functions, user profiles, relational database models and data integrity, SQL joins and query writing.
* Hands on experience in creating indexed views, complex stored procedures, effective functions, and appropriate triggers to assist efficient data manipulation and data consistency.
* Hands on Experience in using tools like SQL Profiler and Windows Performance Monitor for Monitoring and Tuning SQL Server Performance.
* Worked extensively on system analysis, design, development, testing and implementation of projects (Complete SDLC) and capable of handling responsibilities independently as well as a proactive team member.
* Experience in Data Extraction, Transforming and Loading (ETL) using various tools such as SQL Server Integration Services (SSIS), Log Shipping, Bulk Insert and BCP.
* In-depth **Cisco technology** knowledge in design, administration, implementation and support.
* In-depth knowledge of deploying and troubleshooting **IP protocols**.
* Experience in using **Jenkins/Hudson** as a Continuous Integration server to configure with **Ant/Maven**
* Good knowledge of web services with protocols **SOAP, REST**.
* Developed and executed **White box test cases** of the **Java API** using **Test NG** framework & Eclipse.
* Extended **Testing** framework by adding some helper classes and methods.
* Experienced in working with server side technologies including databases, restful API and MVC design patterns.
* Special skills in development of effective, user-friendly web applications. Experienced in requirement gathering, Use case development, Business Process flow, Business Process Modelling: extensively used UML to develop various use cases, class diagrams and sequence diagrams.
* Superior Troubleshooting and Technical support abilities with Migrations, Network connectivity and Security and Database applications.
* Experience in analysing and handling large datasets using **Oracle Relational database** 9i (9.2.0.8), 10g (10.2.0.3, 10.2.0.4, 10.2.0.5) and 11g (11.2.0.3, 11.2.0.4).
* Knowledge about setting up Python REST API Frame work using Django.
* Having good knowledge in using NoSQL databases like **Apache Cassandra** (1.2, 2.0 and 2.1) and **Mongo DB** (2.6, 2.4), **Orient DB.**
* Experience in using various version control systems like **CVS**, **Git, GitHub and Amazon EC2** and deployment using **Heroku.**
* Day-to-day server support for clients from our office in Midtown Manhattan.
* Build, upgrade and maintain servers on Solaris and Linux platforms.
* Write, maintain and improve automation scripts in Perl, BASH, PHP & Python.
* Troubleshoot client/server application issues.
* MySQL, Postgres and Oracle maintenance.
* The methodology used here will be to introduce in a simple and abbreviated manner the components of **the Jython language most** likely to be used in wsadmin scripts.
* That introduction will then be illustrated with a few example demonstrating the capabilities and functioning of **Jython.**
* Proficient in writing **SQL** Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like **Oracle, DB2 and MySQL.**
* Good knowledge in working with application server- **Apache Tomcat** (6.0, 7.0, 8.0).
* Experience in working with Python ORM Libraries including **Django ORM**.
* Expertise in working with GUI frameworks – **PyJamas, Jytho**
* Experience in Test Driven Development and Behaviour Driven Development methodologies for consulting firms and enterprise projects.
* Good idea about testing tools like **Bugzilla andJIRA.**
* Shares expertise throughout the organization and may provide user training for products
* Evaluates engineering approaches and risks to produce development plans that ensure high quality, low cost products and systems
* Identifies and keeps abreast of novel technical concepts and markets
* Authors technical reports, papers, articles, patents and presentations when needed
* Participates in relevant project technical reviews and audits
* Reviews, mentors and coaches, while defining and promoting use of standards, best practices and lessons learned.

**Technical Skills:**

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| --- | --- |
| **Frameworks** | Django, Zope, PyJamas, Jython, CSS Bootstrap |
| **Web Technologies** | HTML, CSS, DOM, SAX, Java Script, JQuery, AJAX, XML, AngularJS. |
| **Programming Languages** | Python, C, PERL,SQL and PL/SQL. |
| **J2EE Technologies** | JSP, Java Servlets, JNDI, JDBC and JMS. |
| **Version Control** | SVN, CVS, Git, GitHub. |
| **Analytic Tools** | JMP PRO, SAS, Tableau, UCI NET, Node XL |
| **Application servers** | Apache Tomcat, JBoss |
| **Databases** | Oracle (9i,10g, 11g), My SQL, Apache Cassandra, MongoDB |
| **IDE’s/ Development Tools** | NetBeans, Eclipse, PyCharm, PyScripter, PyStudio and Sublime Text. |
| **Operating Systems** | Windows, Red hat Linux 4.x/5.x/6.x, Ubuntu. |
| **Protocols** | TCP/IP, HTTP/HTTPS, SOAP, SMTP |
| **Deployment Tools** | Heroku, Amazon EC2 |
| **Testing Tools** | Bugzilla and JIRA. |

**Professional Experience:**

**Client: Walgreens, Chicago IL May 2015 – Till date**

**Role: Sr. Python Developer**

**Responsibilities:**

* **Django** Framework that was used in developing web applications to implement the model view control architecture.
* Exposure on Multi-Threading factory to distribute learning process back-testing and the into various worker processes.
* Performed efficient delivery of code based on principles of **Test Driven Development (TDD**) and continuous integration to keep in line with Agile Software Methodology principles
* Different testing methodologies like unit testing, Integration testing, web application testing
* **Selenium** testing performed.
* Lock mechanisms were implemented and the functionality of **multithreading** has been used
* **Python/Django** based web application, **Post gresql** DB and integrations with 3rd party email, messaging, storage services.
* Developed a fully automated continuous integration system using **Git**, Gerrit, **Jenkins**, MySQL and custom tools developed in **Python**and Bash
* Design and implemented custom scripts.
* Wrote complex queries using T-SQL to create joins, sub queries, functions and correlated sub queries to retrieve data from the database.
* Identified, tested, and resolved database performance issues (monitoring and tuning) to ensure database optimization.
* Created/Updated database objects like tables, views, stored procedures, function, packages.
* Designed MS SSIS Packages to extract data from various OLTP sources to MS **SQL Server**.
* Build efficient SSIS packages for processing fact and dimension tables with complex Transforms and type 1 and type 2 slowly changing dimensions.
* Created mapping tables to find out the missing attributes for the ETL process.
* Created SQL Jobs to schedule SSIS Packages
* Skilled in error and event handling: precedence Constraints, Break Points, Check points and Logging.
* Created VB.Net, C# Script for Data Flow and Error Handling using Script component in SSIS.
* Created views to facilitate easy user interface implementation, and triggers on them to facilitate consistent data entry into the database.
* Rigorously tested and debugged the Stored Procedures and used Triggers to test the validity of the data after the insert, update or delete.
* Monitored the overall performance of the database to recommend and initiate actions to improve/optimize Performance.
* Extensive use of version controller **Team Foundation Server (TFS).**
* Test and validated the custom scripts.
* Delivered automated solutions for science models
* Managed, developed and designed a dashboard control panel for customers and Administrators using Django, Oracle DB and PostgreSQL.
* Implemented configuration changes for data models.
* Maintained and updated existing automated solutions
* Handled potential points of failure through error handling and communication of failure
* Anticipated potential parts of failure( database, communication points, file system errors)
* Troubleshoot the process execution and worked with other team members to correct them.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team
* Used **Pandas** library for statistics Analysis.
* Used **Numpy** for Numerical analysis for Insurance premium
* Managed large datasets using **Panda data frames** and **MySQL**.
* Used advanced packages in **AON PATHWISE** for performing unit test and deploying data models.
* Extensively used Python modules such as requests, **urllib**, **urllib2** for web crawling.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of Python code using a web browser.
* Developed the required **XML** Schema documents and implemented the framework for parsing XML documents.
* Debug of custom software running on Windows and Linux operating systems.
* Cygwin and Linux operating system knowledge
* Professional minded with the ambition to advance both the product as well as themselves.
* Responsible for user validations on client side as well as server side.
* Automated the existing scripts for performance calculations using **Numpy** and **sql alchemy**.
* Interacted with QA to develop test plans from high-level design documentation.

**Environment:** Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Mongo DB, T-SQL, JavaScript, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting.

**Client: Rockwell American, Phoenix, AZ July 2014–Apr 2015**

**Role: SR Python Developer**

**Description:** A Leading Manufacturer and distributor of Quality Trailer Products

**Responsibilities:**

* Developed web applications in **Django** Framework’s model view control (MVC) architecture.
* Exposure on Multi-Threading factory to distribute learning process back-testing and into various worker processes.
* Performed efficient delivery of code based on principles of **Test Driven Development(TDD**) and continuous integration to keep in line with Agile Software Methodology principles
* Different testing methodologies like unit testing, Integration testing, web application testing
* Developed test scripts for automation with **Selenium**.
* **Python/Django** based web application, **Postgresql** DB and integrations with 3rd party email, messaging, storage services.
* Developed a fully automated continuous integration system using **Git**, Gerrit, **Jenkins**, MySQL and custom tools developed in **Python** and Bash
* Design and implemented custom scripts.
* Extensive use of version controller **Team Foundation Server(TFS).**
* Tested and validated the custom scripts.
* Delivered automated solutions for science models
* Managed, developed and designed a dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL and VMWare API calls.
* Implemented configuration changes for data models.
* Maintained and updated existing automated solutions
* Handled potential points of failure through error handling and communication of failure
* Risk analysis for potential points of failure (database, communication points, file system errors)
* Troubleshoot the process execution and worked with other team members to correct them.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.
* Performed troubleshooting, fixed and deployed many **Python** bug fixes of the two main applications that were a main source of data for both customers and internal customer service team
* Used **Pandas** library for statistics Analysis.
* Managed large datasets using **Panda data frames** and **MySQL**.
* Extensively used python modules such as requests, **urllib**, **urllib 2** for web crawling.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of python code using a web browser.
* Developed the required **XML** Schema documents and implemented the framework for parsing XML documents.
* Written with object-oriented **Python**, **Flask**, SQL, Beautiful Soup, httplib2, Jinja2, HTML/CSS, Bootstrap, jQuery, Linux, Sublime Text, git.
* Part of team implementing REST API's in **Python** using micro-framework like **Flask** with SQLAlchemy in the backend for management of data center resources on which OpenStack would be deployed.
* Developed and deployed SSIS packages for ETL from OLTP and various sources to staging and staging to Data warehouse using For Each Loop Container, Execute Package task, Execute SQLTask, Sent Mail task, Lookup, Fuzzy Lookup, Derived Columns, Condition Split, Slowly Changing Dimension and more.
* Extract, Transform and Load (ETL) source data into respective target tables to build the required data marts.
* Involved in designing ETL as a part of Data warehousing and loaded data in to Fact tables using SSIS.
* Supported Production Environment with schedule the packages and make the package dynamic with SQL Server Package Configuration.
* Developed SSIS packages using for each loop in Control Flow to process all excel files within folder, File System Task to move file into Archive after processing and Execute SQL task to insert transaction log data into the SQL table.
* Deployed SSIS Package into Production and used Package configuration to export various package properties to make package environment independent.
* Developed queries or stored procedures using T-SQL to be used by reports to retrieve information from relational database and data warehouse
* Developed and executed stored procedures and PL/SQL scripts.
* Documented and maintained use case diagrams and sequence diagrams.
* Implemented web components utilizing JSP and server side components.
* Responsible for user validations on client side as well as server side.
* Interacted with QA to develop test plans from high-level design documentation

**Environment:** Python 2.7, Django, HTML5/CSS, MS SQL Server 2013, MySQL, JavaScript, Eclipse, Linux, Shell Scripting, JQuery, GitHub, Angular.JS, Jira

**Client: Vertical Ops, Orem, UT Dec 2013 - Jun 2014**

**Role: Python Developer**

**Description:** Vertical Ops is a dedicated Business Solutions Company tailored to the needs of our clients. We pride ourselves on our unique, industry-leading understanding of your business which produces quality sales, amazing customer service

**Responsibilities:**

* Wrote **Python routines** to log into the websites and **fetch data** for selected options.
* Used **Python modules** such as **requests, urllib, and urllib2** for web crawling.
* Used other packages such as **Beautiful soup** for **data parsing**.
* Worked on writing and as well as read data from **csv and excel file formats.**
* Developed a **MATLAB algorithm** which determines an object's dimensions from digital images.
* Web-services backend development using Python (**CherryPy, Django, SQL Alchemy**).
* Participated in developing the company's internal framework on Python. This framework became a basement for the quick service's development. Framework based on **CherryPy** with **GnuPg encryption** (reGnuPg module) on the top.
* Worked on resulting reports of the application and Tableau reports.
* Worked on **HTML5, CSS3, JavaScript, AngularJS, Node.JS, Git, REST API, Mongo DB, intelliJ IDEA.**
* Design and Setting up of environment of **Mongo dB** with shards and replica sets. (Dev/Test and Production).
* Private VPN using Ubuntu, Python, Django, CherryPy, Postgres, Redis, Bootstrap, Jquery, Mongo, Fabric, Git, Tenjin, Selenium, Sphinx, Nose
* Modifying data using SAS/BASE, SAS/ MACROS.
* Extracting data from the database using **SAS/Access, SAS SQL** procedures and create **SAS data sets**.
* Performed QA testing on the application.
* Web application development using Python 3.2/2.7, Django 1.9, Flask, MongoDB, JavaScript, AJAX, HTML, XML and template languages.
* Extensively used Python / Django / Flask Framework for developing backend of applications.
* Developed approaches for improving NLP pipeline. .
* Create custom VB scripts in repackaging applications as needed.
* NLP File Prep Settlement-Prepare files for review for Settlement.
* Held meetings with client and worked all alone for the entire project with limited help from the client.
* Participated in the complete **SDLC** process.
* Developed rich user interface using **CSS, HTML, JavaScript and JQuery**.
* Created a Python based **GUI** application For Freight Tracking and processing
* Used Django framework for application development.
* Developed and maintained various automated web tools for reducing manual effort and increasing efficiency of the Global Shipping Team.
* Created database using MySQL, wrote several queries to extract data from database.
* Setup automated cron jobs to upload data into database, generate graphs, bar charts, upload these charts to wiki and backup the database.
* Wrote scripts in Python for extracting data from HTML file.
* Effectively communicated with the external vendors to resolve queries.
* Used Perforce for the version control.

**Environment**: Python 2.7, Django 1.4, MySQL, Windows, Linux, HTML, CSS, JQuery, JavaScript, Apache, Linux, Quality Center

**Client: Mazda, Irvine, CA Mar 2011 – Nov 2013**

**Role: Python Developer**

**Responsibilities:**

* Worked on the project from gather requirement developing the entire application, with help from other analyst.
* Used Django configuration to manage URLs and application parameters.
* Generated Python Django Forms to record data of online users
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation
* Used Python based GUI components for the front end functionality such as selection criteria.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript.
* Also used Bootstrap as a mechanism to manage and organize the html page layout.
* Used Django configuration to manage URLs and application parameters.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Use of Python Frameworks for data analysis including Sqlalchemy.
* Designed and created backend data access modules using PL/SQL stored procedures and Oracle 9i.
* Experience in Data warehousing (ETL), DB Administration using Teradata.
* Have extensively worked in Teradata Tools.
* Involved in Logical & Physical Database Layout Design.
* Created table structure for data marts in Netezza.
* Created data load process to load data from OLTP sources into Netezza
* Created database access layer using JDBC and PL/SQL stored procedures.
* Involved in analyzing Business Requirement Documents and Technical Specification document and developed test plan and test cases for testing the application.
* Prepared **Test Matrix** to keep track of the requirements and the test cases.
* Identified test cases to automate. Automate those test cases using **Selenium WebDriver, Junit** and **Java technologies (Eclipse IDE)**. Contributed in framework creation.
* Extensively used **Page Objects design** and **page navigation** framework for readable test script and easy maintenance from developer perspectives.
* Developed test automation scripts using **Selenium WebDriver** for regression and performance testing of the various releases of the application.
* Performed manual testing of each build and then **regression testing** on each builds using **Selenium WebDriver.**
* Performed UI testing and front end testing using **Selenium.**
* Used **Firebug** to do web based application testing with selenium for the commands and locator application.
* Worked on **Cross Browser testing** through **Selenium WebDriver** by testing the website on different browsers like Chrome, IE and Firefox.
* Performed build acceptance testing and smoke testing using **Cucumber** automation tool.
* Developed **Test Framework** in **Selenium for UI Regression Test Automation** and when necessary and potentially execute **Unit Test** automation (**Java/Junit**).
* Involved in writing unique **XPath** using **firebug and fire path to** identify web elements.
* Developed data **driven test scripts** to check the same functionality with multiple sets of data.
* Created the tests that have no user interaction as a set and executed them as Batch tests using **ANT**.
* Performed data driven testing by using JDBC as a data source in **SOAP UI** and configured SQL queries to fetch data from the Oracle database.
* Conducted **System Testing** and **User Acceptance Testing** for every client and Conducted Backend testing writing extensive **SQL queries**.;
* Performed the testing of **Restful** web services for mobile apps for the Using **SOAP UI.**
* Conducted **backend testing using SQL queries** to validate data for database and Used **SQL queries** for retrieving data from database for executing user specific test cases.
* Involved in **documentation** as to how to maintain and run scripts for future enhancements. Responsible for testing the application against different environments in **QA, staging and production**.
* Developed and maintained innovative, repeatable **QA test plans as well as performance test plans** based on functional requirements, use cases, user interface designs, system design documents and domain knowledge
* Worked on **WinRunner 7.6, LoadRunner 7.5, Test Director 7.6** and**QTP**.
* Analyzed the business requirements, developed test plans and created test cases in **Quality center**, a test management tool.

**Environment:** Python, Django, JSON, Java, Selenium Web Driver (2.37.0), Junit, HTML, CSS, AJAX, JQuery, Bootstrap, AWS, XML, SOAP, GitHub, Jira, Agile, SQL, PL/SQL, MYSQL, Oracle, Netezza and Windows.

**Client: HSBC, Hyderabad, India Jul 2009- Feb 2011**

**Role: Python Developer**

**Responsibilities:**

* Developed entire frontend and backend modules using Python on Django Web Framework.
* Work with team of developers on python applications for RISK management.
* Designed and developed the UI of the website using HTML, AJAX, CSS and JavaScript
* Made Django web based apps for Insurance premium calculations.
* Generated property list for every application dynamically using Python.
* Creating unit test/regression test framework for working/new code.
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application
* Designed and developed data management system using MySQL.
* Rewrite existing Java, C++ application in Python.
* Designed the architecture of the hardware environments and methodology of the code.
* Experienced in Agile Methodologies and SCRUM Process.
* Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Used Pandas library for statistical Analysis.
* Used Numpy for Numerical analysis for Insurance premium.
* Generated property list for every application dynamically using python.
* Handled all the client side validation using JavaScript.
* Creating unit test/regression test framework for working/new code.
* BuildSQL, NOSQLqueries implementing functions, packages, views, triggers, and tables.
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.
* Handling the day to day issues and fine tuning the applications for enhanced performance.
* Worked in development of applications especially in UNIX environment and familiar with all of its commands

**Environment:** Python, Django 1.3, MySQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, and Apache Web Server, NO SQL**.**