**Sr. Python Developer**

**Vimala. N**

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**Summary**

* Over 7+ Years of experience in Analysis, Design, Development, Management and Implementation of various stand-alone, client-server enterprise applications in Python on various domains.
* Good experience in developing web applications implementing Model View Control architecture using Django web application frameworks.
* Experienced in working with various Python IDE's using PyCharm, PyScripter, Spyder, PyStudio and PyDev.
* Implemented different python libraries BeautifulSoup, numpy, scipy, pytables, matplotlib, memcache, PySide, Pandas data frame, PyQtGraph and urllib2 in various tasks.
* Expertise in Object-Oriented design and coding.
* Good experience in Python, Django, Shell Scripting, SQL Server, Unix and Linux.
* Knowledge of HTML, JavaScript, CSS, Ajax and JQuery.
* Developed web applications and Restful web services and APIs using Python, Flask, Django and PHP.
* Built custom UI Widgets and Application logic using OOD and MVC architecture.
* Useful learning of web services with protocols SOAP, REST.
* Worked on changes to open stack and AWS to accommodate large-scale data center deployment.
* Knowledge of ORM mapping using SQLALCHEMY.
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers.
* Worked on SQL databases like MYSQL, NOSQL, and Oracle.
* Analyzed and handled large datasets using Oracle Relational database 9G, 10G.
* Skilled in debugging/troubleshooting issues in complex applications.
* Developed Build Scripts to fortify certain Applications using Ant and Maven.
* Have good idea about development tools like Bugzilla, Jira, Confluence, Axosoft.
* Have good knowledge on No-Sql databases like Cassandra, MongoDB.
* Experience with Unit testing, Test driven Development(TDD), Load testing , Integration testing, User acceptance testing, Functional testing.
* Skilled in Requirement gathering, Use case development, Business Process flow, Business Process Modeling: extensively used UML to develop various use cases, class diagrams and sequence diagrams.
* Good knowledge in working with application server -Apache Tomcat, Web logic.
* Hands-on experience in Python scripting, Python STL, Pylons, Django, UI and web development.
* Used SVN and GIT for version control.
* Experience in Agile development techniques.
* Performed code reviews and implemented best Pythonic programming practices.
* Willing to learn and adapt to any platform.
* Excellent analytical and problem solving skills and ability to work on own besides being a valuable and contributing team player.

**EDUCATION**

**Bachelor of Technology in Electronics & Communication Engineering**

SRM University - Chennai, Tamil Nadu

**ADDITIONAL INFORMATION**

**TECHNICAL SKILLS:**

Operating Systems Unix, Linux (Ubuntu), Solaris, Windows 2000, XP, Vista, 7. Web technologies JavaScript, XML, HTML, CSS4, JQuery, AngularJS, Bootstrap. Languages Python , C, E/SQL, Shell Scripting, QT.

Database Oracle 11.2, SQL SERVER 2008, MYSQL 5,Sqlite3,Redis,MongoDB

Internet Programming HTML, XML, CSS, AJAX, JSON, Web Services (SOAP/REST), JASPER. Software Tools Make, GDB, DBX, Purify, Eclipse, Microsoft Visual Studio .Net 2008, MS Visio, Valgrind. Version Control Tools SVN, GIT.

**WORK EXPERIENCE**

**Role: Python Developer**

**Client: BNP PARIBAS - New York, NY**

**June' 15 to Present**

**Responsibilities:**

* Working on Python 3.4 and working independently.
* Working closely with B.A's for rapidly changing business requirements.
* Developed scripts in python for Financial Data coming from SQL Developer based on the requirements specified.
* Worked on Files for picking, modifying based on requirement and updating in the desired location.
* Worked on different python libraries like xlrd, openpyxl, urllib etc.
* Making the script for production by scheduling based on the requirement.
* Improved code reuse and performance by making effective use of various design patterns and refactoring code base.
* Implemented responsive vector maps and charts on web pages using the data from postgreSQL.
* Collaborate with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
* Manage, collaborate and coordinate the work of an offshore development team.
* Experienced in Linux shell commands and command line utilities.
* Experience with advanced CSS concepts and also building table-free layouts.
* Worked on front end frame works like CSS Bootstrap for development of Web applications.
* Experienced in writing SQL Queries and implementing stored procedures, functions, packages, tables, views, Cursors, triggers.
* Model View Control architecture is implemented using Django Framework to develop web applications.
* Created Django dashboard with custom look and feel for end user after a careful study of Django admin site and dashboard.
* Implemented business logic, data exchange, XML processing and created graphics using Python and Django.
* Worked on JIRA as bug tracking tool and experienced in Agile Methodologies and SCRUM Process.
* In time submission for the urgent needs of the business.

**Environment:** Python 3.4, CSV, MySQL, MS SQL Server, Atlassian tools, Windows 12 Server, Linux, and Windows, Django, PostgreSQL, CSS, Bootstarp, JIRA, Agile

**Role: Python Developer**

**Client: DirecTV - El Segundo, CA**

**Aug' 14 to June' 15**

**Responsibilities:**

* Responsible for getting the teams up and running with game record features.
* Worked on requirement gathering and High level design.
* Used HTML/CSS, XML and JavaScript for UI development.
* Converted Visual basic Application to Python, MySQL.
* Used python scripts to update content in the database and manipulate files.
* Created Reports using JASPER.
* Modified queries, functions, cursors, triggers and stored procedures for MySQL database to improve performance, while processing data.
* Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Performed Unit/System test.
* Prepared the Test data (Input files) for interpreting the Positive/Negative/regression results based on the design requirements.
* Developed automated test scripts from manual test cases for Regression testing based on the requirement documents using Quick Test Professional.
* Skilled in using Collections in Python for manipulating and looping through different user defined objects.
* Wrote many programs to parse excel file and process many user data with data validations.
* Responsible for Parsing XML data using XML parser and Testing, fixing of the bugs and coding modifications.
* Created data base tables, functions, stored procedures and wrote prepared statements using PL/SQL.
* Used Thales theorem for applying encryption and decryption of ISO standard message in Python programming.
* Applied EMV card algorithms to system via python programs.
* Contributed patches back to Django.
* Performed research regarding Python Programming and its uses and efficiency.
* Utilized Python in the handling of all hits on Django, Redis, and other applications.
* Used Redis as messaging broker to execute asynchronous tasks.
* Developed object-oriented programming to enhance company product management.
* Experience in Agile Methodologies and SCRUM Process.
* Extensive code reviewing using GitHub pull requests, improved code quality, and also conducted meetings among peer.
* Collaborated with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
* Managed, collaborated and coordinated the work of an offshore development team.

**Environment**: Python 2.7, Visual Basic, Java Script, Hive, XML, JASPER, QTP, MySQL, PL/SQL, Oracle 9i, Bugzilla

**Role: Python/Django Developer**

**Client: Creehan & Company - Pittsburgh, PA**

**Mar' 12 to Apr' 14**

**Responsibilities**

* Translated the customer requirements into design specifications and ensured that the requirements translate into software solution.
* Application was based on service oriented architecture and used Python 2.5, Django 1.5, JSF 2, Spring 2, Ajax, HTML, CSS for the frontend.
* Designed the front end of the application using Python, Java, HTML, CSS, AJAX, JSON and JQuery. Worked on backend of the application, mainly using Active Records.
* Analysed system requirements specifications and also in client interaction during requirements specifications.
* Worked on Analysis and Design of application.
* Created UI using JavaScript and HTML5/CSS.
* Developed and tested many features for dashboard using Python, ROBOT framework, Bootstrap, CSS, and JavaScript.
* Writing backend programming in Python.
* Used JavaScript and XML to update a portion of a webpage and Node.js for server side interaction.
* Implemented web applications in Flask and Spring frame works following MVC architecture.
* Used spring, JDBC and JPA at persistence layer (DAO)
* Used Robot Framework, RIDE and developed few test suites for testing application.
* Used Adobe CQ for helping with reusing the components and templates for creating different web pages.
* Develop consumer based features and applications using Python, Django, HTML, Behaviour Driven Development (BDD) and pair based programming.
* Performed Unit testing, Integration Testing, GUI and web application testing using Spec.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and JQuery.
* Experience with advanced CSS concepts and also building table-free layouts.
* Worked on front end frame works like CSS Bootstrap for development of Web applications.
* Experienced in writing SQL Queries and implementing stored procedures, functions, packages, tables, views, Cursors, triggers.
* Collaborate with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
* Develop digital consumer experiences based on foundation of the Adobe CQ/AEM product suite.
* Manage, collaborate and coordinate the work of an offshore development team.
* Special skills in developing user friendly, simple yet effective web based applications.
* Deployed the project into Heroku using GIT version control system.
* Worked in MySQL database on simple queries and writing Stored Procedures for normalization and renormalization.
* Used many regular expressions in order to match the pattern with the existing one.
* Build SQL queries for performing various CRUD operations like create, update, read and delete.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Work with team of developers on python applications for RISK management.
* Taken part in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Used Pandas library for statistics Analysis.
* Used Numpy for Numerical analysis for Insurance premium.
* Improved code reuse and performance by making effective use of various design patterns.
* Created most important Business Rules which are useful for the scope of project and needs of customers.
* Designed the architecture of the hardware environments and methodology of the code.
* Experienced in Agile Methodologies and SCRUM Process.
* Worked in development of applications especially in UNIX environment and familiar with all of its commands.

**Environment:** Python 2.7, Django 1.4, Cassandra, Windows, Linux, HTML, CSS, Node.js, JavaScript, Jira, Linux, Git, Google Analytics, CRUD, Adobe CQ/AEM.

**Role: Web Developer**

**Client: Intuitive Surgical - Sunnyvale, CA**

**Jan' 10 to Feb' 12**

**Responsibilities:**

* Worked closely with UI designers to understand the detailed intuitive UI prototypes and components.
* Designed the front end of the application using CSS, AJAX, JSON and JQuery.
* Developed and tested many features for dashboard using Flask, CSS and JavaScript.
* Wrote back end programming in Flask.
* Created RESTful http services to interact with UI.
* Used JavaScript and XML to update a portion of a webpage.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using HTML, JavaScript.
* Experience with advanced CSS concepts and also building table-free layouts.
* Implemented BackboneJS for creation of networking applications using JavaScript.
* Experience in writing SQL queries for performing various CRUD operations like create, read, update and delete.
* Special skills in developing user friendly, simple yet effective web based applications.
* Deployed the project into Heroku using GIT version control system.
* Worked in MySQL database on simple queries and wrote Stored procedures for normalization and renormalization.
* Responsible for debugging issues using Android Debugger.
* Used Git and Jira for code submissions and review process.
* Managed code versioning with GitHub and deployment to staging and production servers.
* Executed Display Controller regression tests with every firmware build release.
* Reported Issues using Excel to senior members in the team.
* Worked in development of applications in UNIX environment and familiar with all of its commands.

**Environment:** AJAX, Java Script, HTML, XHTML, JQuery, JSON, XML, CSS, MySQL, PL/SQL.

**Role: Java/Python Developer**

**Client: SONATA SOFTWARE LTD-INDIA**

**Mar' 08 to Nov' 09**

**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 Production environment.

* Developed Application on IDEs like Eclipse, Rational Application Developer, Rational Software Architect and Version 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 create a 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 for the DAO layer development.
* Responsible for investigating the issues, defects, determining problem root cause, formulating corrective action recommendations & implementing them.
* Used UML to design various data models including data flow diagrams, work flow diagrams and interaction diagrams.
* Designed Class Diagrams, Sequence Diagrams depicting flow of the application using Rational Rose.
* Utilized Python in the handling of all hits on Django, Redis, and other applications.
* 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, communicated with testers and resolved trackers.

**Environment:** Spring 3.x, Hibernate4.x, Struts, JQuery, AJAX, Sencha, ExtJS, JavaScript, backbone.js, Oracle 11g, CRUD, PL/SQL, JDBC coherence, Web Sphere 6.1, Struts, JSP, Java