**Raja**

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**Python Developer**

**PROFILE SUMMARY:**

* Around 6 years of professional experience in I.T Industry with strong hands on analysis, design and development of enterprise applications using **Python**, **Django**, **Flask**, **JAVA/J2EE** Technologies.
* Equipped with the knowledge of various software’s, organizing **technical demonstrations** with sound understanding and skill of creating new software & systems, **designing, analysis, testing, database development** and **coding** for modules while structuring **customized solutions** to meet customer’s specific needs.
* Strong experience of software development in Python (libraries used: **Beautiful Soup**, **NumPy**, **SciPy**, **Matplotlib**, python-**twitter**, **Pandas** data frame, **networkX**, **urllib2**, **MySQL dB** for database connectivity) and IDEs - S**ublime text, Spyder, PyCharm**, **Eclipse**, **Emacs**.
* Good experience in Python in creating scalable and robust applications along with other technologies.
* Proficient in developing Web Services (**SOAP, RESTful**) in Python using **XML**, **JSON**.
* Driven to architect Big Data solutions on multiple platforms using data analytics.
* Hands on experience working in **WAMP** (Windows, **Apache**, **MYSQL** and **Python/PHP**) and **LAMP** (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Expertise in practicing the SDLC models, agile methods with Scrum, Extreme Programming, Ticketing systems using JIRA and **Test-Driven Development (TDD).**
* Developed **Java/J2ee** applications using **XML**, **XSLT** and **Basic ASP.net** applications including using Core Java concepts like OOPS, **Multithreading**, Garbage Collections, and **Collections**.
* Experienced in developing web-based applications using **Python**, **Django**, **PHP**, **C++**, **XML**, **CSS**, **HTML**, **DHTML**, **JavaScript**, **jQuery**, **MVC3**, **Bootstrap**, **RESTful**, **RUBY** and **AJAX**.
* Expertise in working with different databases like **Oracle**, **MySQL**, **PostgreSQL** and Good knowledge in using **NoSQL** database **MongoDB**.
* Good experience in developing web applications and implementing Model-View-Controller (MVC) architecture using server-side applications like **Django**, **Flask, Web2Py** and **Pyramid**.
* Excellent experience with Python development under Linux OS (**Debian**, **Ubuntu**, **SUSE Linux**, **Red Hat Linux**).
* Well versed with Version control systems such as **Git**, **SVN** **and CVS**.
* Good knowledge in strategy and implementation of AWS technologies such as **EC2**, **S3**, and **EBS**.
* Experience in using Design Patterns such as MVC, Singleton and frameworks such as **Django, WSGI**.
* Experience in project deployment using **Google Cloud/Jenkins, Elasticsearch** and using web Services like Amazon Web Services (**AWS**).
* Developed a scalable logging solution in **Golang** that could track custom log outputs to various destinations; file, stdout/stderr, syslog, email, remote.
* Created a **Golang** script to read data from csv file and publish formatted json data to remote RabbitMQ cluster.
* Experience in using **UNIX Shell Scripts** for automating batch programs.
* Worked on **AJAX** framework to transform Datasets and Data tables into **HTTP** Serializable **JSON**

strings.

* Proficient in developing complex SQL queries, Stored Procedures, Functions, Triggers, Cursor and Packages along with performing **DDL** and **DML** operations on the **MySQL** and **PostgreSQL** database and Modified Stored Procedures and complex **T-SQL** Queries to improve query execution process.
* Strong knowledge with REST API development and good idea using debugging tools like **Bugzilla** and **JIRA**.
* Experience in deploying applications in heterogeneous Application Servers TOMCAT, Web Logic and Oracle Application Server.
* Experience in working with **SQLAlchemy** in connecting with databases like Mongo DB, Cassandra, Oracle and MySQL.
* Created action filters, parameters and calculated sets for preparing dashboards and worksheets in **Tableau**.
* Installing / resolving hardware, firmware, driver, networking, SAN, data centre, operating system, PCI, RAID and applications on a multitude of server and desktop platforms.
* Worked on Several deployment tools using **Google Cloud**, **Jenkins**, **Ansible**, P**ylint**, **cppCheck** and **Coverity.**
* Familiarity with development best practices such as code reviews, unit testing, system integration testing (SIT) and user acceptance testing (UAT).
* Expertise in performing Unit testing using **PyUnit** framework and Test Automation used **Robot** Framework along with Error Logging using **Sentry**.
* Used ANT scripts to build and deploy code to other environments from Development environment.
* Performed code reviews and implemented best **Python**ic programming practices.
* Possess keen business acumen in analysing and understanding business requirements, **customer-value maximization** and developing new business processes.
* Worked on Waterfall to Agile Methodologies.
* Good team player with excellent work history and willingness to go extra mile.
* Exceptional **analytical, troubleshooting organizational, communication, prioritization** and **problem solving** and **leadership skills** with ability to create and sustain high work tempo.

**TECHNICAL CREDENTIALS**

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| **Programming Languages** | **Python, C, C++, Java, shell scripting,** **PL/SQL, Golang.** |
| **Operating Systems** | **Windows 98/2000/XP/7,8, Mac OS, UNIX and Linux, Debian, Ubuntu** |
| **Web Technologies** | **HTML/HTML5, CSS/CSS3, XML, DOM, AJAX, jQuery, JSON and CSS Bootstrap.** |
| **Frameworks** | **Django, Flask, Pyramid, Pyjamas, Jython, Angular JS, Spring, Hibernate** |
| **Python Libraries** | **Report Lab, NumPy, SciPy, Matplotlib, HTTPLib2, Urllib2, Beautiful Soup, Pickle, Pandas, PyIMSL, PyTables.** |
| **Cloud Services** | **Amazon Web services, Google app Engine, Salesforce.** |
| **IDE’S** | **Sublime Text 2, Vim, PyCharm, PyDev, NetBeans, Eclipse** |
| **Database** | **MySQL, SQL Server, NoSQL,Sqlite3, Postgresql,Cassandra, Redis and mongo DB** |
| **Web Servers** | **Apache HTTP Webserver, WebLogic, WebSphere, JBoss and Apache Tomcat** |
| **Analytics Tools** | **JMP PRO, SAS, Tableau, UCI NET, NodeXL** |
| **Deployment tools** | **Heroku, Amazon EC2, Jenkins and Fabric** |
| **Protocols** | **TCP/IP, HTTP/HTTPS, SOAP, REST** |
| **Version Control Systems** | **CVS, SVN, Git and GitHub.** |
| **Agile Methodologies** | **TTD, SCRUM** |
| **Other Tools Used** | **Spyder, IntelliJ IDEA, Brackets, ANT Build, SQL Developer, Visual Studio, Putty.** |

**Professional Experience**

**Role: - Python Developer**

**Period: - Mar 2018 to Present**

**Responsibilities:**

* Involved in software development life cycle (SDLC) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
* Involved in exiting the data centres (lifted and shifted) to cloud building script for data movement from S3 to EC2 using SQS back and forth using python.
* Developed Nebula datasets registration for keeping the raw data as a backup and worked with Amazon web services EC2 and EMR as a replacement for application servers and various business processes.
* Involved in converting Hive/**SQL** queries into Spark transformations using Spark RDD, Scala and Python.
* Utilized Cloud watch to monitor resources such as EC2, CPU memory, Amazon to design high availability applications on AWS across availability zones.
* Configured Elastic Load Balancers with EC2 Auto-scaling groups in AWS.
* Developed **dynamic web** pages, monitoring and notification tools using **Python**, **Django, Pyramid** Frameworks and Used **Python** Library **Beautiful Soup** for web scrapping.
* Developed tools using **Python**, **Shell Scripting** **and XML** to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Generated Tables, Graphs and Listings for inclusion in Clinical study reports and regulatory submission and participated in preparing study results as well as ISS and ISE for FDA submissions using SAS.
* Created new database objects like Functions, Packages, Triggers, Indexes and Views using **T-SQL** in Development and Production environment for SQL Server.
* Managed datasets using **Panda** data frames and **MySQL**, queried MYSQL database queries from python using **Python-MySQL** connector and **MySQL** dB package to retrieve information and made connections for the existing databases using **SQLAlchemy**.
* Used **Django** Database API's to access database objects and Developed **SQLite** and **Python** script to convert OLAP cube data to relational data extract for business reporting
* Created Data tables utilizing **PyQt** to display customer and policy information and add, delete, update customer records.
* Involved in the development of front end of the application using **HTML5**, **CSS3**, **AJAX**, **JSON** and **jQuery** and worked on backend of the application, mainly using Active Records.
* Fetched twitter feeds for certain important keyword using **Python-twitter** library.
* Experienced with **Bootstrap** as a mechanism to manage and organize the **HTML** page layout and used **JavaScript** to validate all the client-side validations.
* Wrote and executed various **MYSQL** database queries from **Python** using **Python-MySQL** connector and MySQL dB package.
* Created unit tests in **Golang** and facilitated the integration of Jenkins CI environment with **GitHub** in collaboration with the operations team.
* Developed a concurrent in-memory caching solution using **Golang** channels, and a FIFO queue to buffer client request on demand.
* Used Golang to add a feature to an open-source data analytics and monitoring platform called Grafana to support customized alerting contents.
* Worked on migration of existing **Java**, **C++** applications in **Python 2.7**.
* Wrote a **Python** module to connect and view the status of an Apache Cassandra instance.
* **DB2 SQL** Procedures and **UNIX** Shell Scripts were designed and developed for Data Import/Export and Conversions.
* Parsed various file formats including **XML** and **JSON** and loaded into Oracle database with **Python XML** and **JSON** modules.
* Used **Pyquery** for selecting DOMelements when parsing **HTML**.
* Implementing change requests raised by user for server configuration, **kernel** tuning, software installation and OS hardening, Managing **Linux VMs** using **Puppet** as per project requirement.
* Implemented **Test Driven Development (TDD**) for developing undergoing system.
* Developed user interface solutions using a **Django** and **Pyramid** web framework. Used Python scripts to update content in the database and manipulate files.
* Used Element Tree **XML** API in Python to **Parse XML** documents and load the data in to the database.
* Involved in development of **Python** based Web Services using **REST** for sending and getting data from the external interface in the **JSON** format and perform analysis using **Django**, **PostgreSQL**.
* Used **Jenkins** to build and troubleshoot automated testing.
* Developed automation scripts to back up the old records by using **Mongo DB** export command and transferred the files into backup machine with the help of **ftplib**.
* Generated **Python Django** forms to record data of online users and used **Pytest** for writing test cases and Depended on **Ansible** for deploying the developing system.
* Version control using **GitHub** and involved in writing stored procedures using **MySQL**.

**Environment:** Python 2.7, Django 1.8, PyCharm, C++, JAVA, Beautiful Soup, Apache Cassandra, HTML5, DOM, CSS3, AJAX, AWS, JSON, jQuery, SQLite, Ansible, JavaScript, MySQL, FTPlib, Mongo DB, PostgreSQL, Puppet, Jenkins, Panda, XML, SQLAlchemy, T-SQL, REST, Linux, GIT, GitHub.

**Role: - Python Developer**

**Period: - Feb 2016 to Jan 2018**

**Responsibilities:**

* Worked with Business Architects and Business Analysts to understand the business requirements.
* Application developed with **Python**, **Django** and **MySQL** using **JIRA** (Agile) methodology.
* Configured the **Django** admin site, dashboard and created a custom Django dashboard for end users with custom look and feel. Used **Django APIs** for database access.
* Created Data Connections, Published on **Tableau** Server for usage with Operational or Monitoring Dashboards.
* Developed entire front end and back end modules using **Python** on **Django, WSGI- Pyramid** Web Framework.
* Improved code reuse and performance by making effective use of various design patterns.
* Developed views and templates with **Python** and **Django**'s view controller and templating language to create a user-friendly website interface.
* Worked on development of SQL and stored procedures for normalization and de-normalization in **MySQL** and used **SQLAlchemy** for connecting with MySQL Database.
* Created **Chef** Cookbooks to deploy new software and plugins as well as manage deployments to the production **Jenkins** server.
* Developed remote integration with third party platforms by using **REST**ful web services.
* Developed user interfaces using **HTML**, **CSS, JavaScript**, **Ajax**, **JSON** and **jQuery**.
* Used **Django** Database API's to access database objects. Also, involved in validating and processing of files.
* Used **ANT** as build tools on **Java** projects for the development of build artefacts on the source code.
* Worked with networking teams in configuring **AWS** Direct Connect to establish dedicated connection to datacentres, **Elastic Search** and **AWS Cloud**.
* Used **Wireshark**, live **HTTP** headers and **Fiddler2** debugging proxy to debug the **Flash** object and help the developer create a functional component.
* Developed internal auxiliary web apps using **Python Flask, Web2Py** framework along with **Bootstrap** CSS / HTML framework.
* Expertise in writing **Constraints**, **Indexes**, **Views**, Stored **Procedures**, **Cursors**, **Triggers** and User Defined function.
* Worked on with several python libraries like **Matplotlib**, **Pytest** **and Selenium**.
* Wrote Lambda functions in python for **AWS** Lambda which invokes python scripts to perform various transformations and analytics on large data sets in **EMR** clusters.
* Parsed various file formats including **XML** and **JSON** and loaded into Oracle database with **Python XML** and **JSON** modules.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Wrote **Python** code embedded with **JSON** and **XML** to produce **HTTP** **GET** request, **URLlib 2** for parsing **HTML** data from websites.
* Providing daily reports to the Development Manager and participate in both the design phase and the development phase.
* Used **Test driven (TDD)** approach for developing the application and Implemented the unit tests using **Python** Unit test framework and for Automation used Robot Framework.
* Followed **AGILE** development methodology to develop the application and During Deployment main worked through **Ansible**.
* Implemented Integration test cases and done Unit testing using **PyUnit** framework.
* Used advanced packages like **Mock**, **Patch** and **Beautiful soup** (b4) to perform unit testing.
* Worked on **Git** Lab as the version control for the project pushed our code to GitHub.
* Used **JIRA** for issue tracking and bug tracking for each individual sprint and used **pyChecker** tool to fix bugs.

**Environment**: Python 3.4, Django 1.8, MySQL, PyCharm, WSGI, Git, Elasticsearch, Flask, Web2Py, Linux, Windows, JSON, jQuery, HTML, XML, CSS, REST, JIRA, Bootstrap, AJAX, AWS, ANT, JavaScript, Beautiful Soup, Agile, GitHub, PyUnit, SQLAlchemy, Ansible, Tableau, SQL Developer, Robot, Jenkins, Chef, Selenium.

**Role: - Python Developer**

**Period: Jul 2014 to Dec 2015**

**Responsibilities:**

* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML**, **CSS**, **JavaScript** and **jQuery**.
* Designed and implemented a dedicated **MYSQL** database server to drive the web apps and report on daily progress.
* Developed views and templates with **Python** and **Django**'s view controller and templating language to create a user-friendly website interface.
* Developed tools using **Python**, **Shell** scripting, **XML** to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Enhanced existing automated solutions, such as the Inquiry Tool for automated Asset Department reporting and added new features and fixed bugs.
* Debugged **Flash** Object, to create Functional Component using **Wireshark**, **Live HTTP** Headers and **Fiddle2** Debugging Proxy. The **PHP** page for displaying the data uses **AJAX** to sort and display the data. The page also outputs data to **.csv** for viewing in Microsoft **Excel**.
* Played a key role in a development wide transition from Subversion to **GIT**, which resulted in an increase in efficiency for the development community.
* Development of **Python APIs** to dump the array structures in the Processor at the failure point for debugging.
* Developed a fully automated continuous integration system using **GIT**, **Gerrit**, **Jenkins**, **MySQL** and custom tools developed in **Python** and **Bash**.
* Written functional **PHP**Unit test cases for Data Layer and Search server classes using **Django**, **Curl,** **XML**, **JSON**, **REST** base services and **MongoDB**.
* Managed, developed and designed a dashboard control panel for customers and Administrators using **Django**, **Oracle DB**, **PostgreSQL** and **VMWare API** calls.
* Created **Rest**ful web services for Catalog and Pricing with **Django MVT**, **Jersey**, **MySQL** and **MongoDB**.
* Generated graphical reports using **Python** package **NumPy** and **Matplotlib**.
* Created Data tables utilizing **PyQtto** display customer and policy information and add, delete, update customer records.
* Used **Robot** Framework along with integration with **Jenkins** for Test Automation.
* Integrated the existing project onto **Google Cloud** which in-turn reduced the workload.
* Used **REST** and **SOAP UI** for testing web service for server-side changes.

**Environment:** Python2.7, Django 1.8, MySQL, HTML, CSS, JavaScript, Bootstrap, jQuery, AJAX, Wireshark, Fiddler 2, Flash, XML, Oracle DB, PostgreSQL, PyQtto, MongoDB, Robot, Google Cloud, PyCharm, Curl, JSON, REST, SOAP UI, Linux, Gerrit, Jenkins, GIT.

**Role: - Java Developer**

**Period: - May 2012 to Jun 2014**

**Responsibilities:**

* Involved in collecting requirements from client and preparing the TDD as per client understands.
* Involved in **Java, Design Patterns, JSP, and Servlets, Restful Web Services, and SQL Knowledge, Application DAO** layer.
* Used **Spring MVC** framework and followed model, view and controller pattern.
* Developed forms using controllers, data-binding, filters, make request to server, restful services and expression modules of **Angular JS**.
* Involved in the development of dynamic loading of web pages using **AJAX** calls with server pages.
* Developed front-end systems & Responsive Design with **HTML, CSS, JavaScript, HTML5, CSS3** and frameworks **jQuery, Angular JS, JSON and Bootstrap.**
* Used **Hibernate** for object relational mapping and query databases using HQL and SQL.
* **Micro services** used to flexible to develop, test, build and **independently deployable** software systems such as **ADE, SCV and OPRA** distributed applications. Each team can **develop, deploy and scale their services independently** of all the other teams.
* Experience on deploying each service independently of other services - easier to deploy new versions of services frequently in **Micro service,** no impact to other modules while deploying/instance refresh.
* Used **Rational Application Developer** (**RAD**) as the Integrated Development Environment for developing, debugging the application, build, run, create JARs, WAR files and setup the **WebSphere Application Server**.
* Used **clear case** version control to maintain the different version of the project, files and merge to release branch and compare the files.
* Used **SSO & SAML** token creation andauthenticate to the external system from ADE application.
* Involved in the development of dynamic loading of web pages using **AJAX** calls with server pages.
* **Fixing Bugs, Troubleshooting, Change Requests, Support** and close the defects coordinating with testing team**.**
* Followed **agile** methodology and **V-Chain modal** for project development and delivery of application including Test Driven Development.
* Experience in **production support and maintenance to troubleshoot** production issues or tickets raised by business/customers.
* Created test cases and performed unit testing using **JUnit** framework and used **Jackson** for **JSON** parser.
* Implemented and modified Business Services using the Core Java and DAO.
* Involved in creating, modifying and extracting data from database using **SQL** Queries. Worked on DB2 database, creating Tables, Views etc.
* Used **WebSphere Application Server** to deploy the application.
* Implemented the logging mechanism using **Log4j** framework and used **Splunk** tool to capture/analyse the production logs.
* Created multiple technical and business **documentation** which was used as a general guideline by clients.
* Used **Team site** content management tool to update the content, image, messages etc.
* **Performance tuning** analysis, monitoring tools, best practices processes followed, load testing performance report analysis, unit testing performance.
* Prepare the process, guideline, application set up document for this project.
* Guide the business web design team to design the pages and resolve their web page issues and work with client and business to implement the changes to production environment.

**Environment: Java, J2EE, WebSphere Application Server, JDBC, DB2, Spring, Hibernate, HTML5, CSS3, jQuery, Angular JS, AJAX, JavaScript, JSP, Log4j, JUnit, RAD, SQL, Clear case, Quantity Centre, Team site, Tea Leaf, Google Analytics, Splunk.**

**Education**

* Bachelor of Technology in Computer Science, JNTU, Hyderabad, India