**Charan reddy**

**Python Developer**

**Summary:**

* Over 8 years of IT experience as a Web/Application Developer and coding with analytical programming using **Python**, **DJango**, **Java**.
* Good experience in **Python**, **DJango**, **Zope**, **Pyramid** Framework and In-charge of legacy products (TruBid, TruGuard, TruReport).
* Experienced in **LAMP** (Linux, Apache, MySQL and Python/PHP), **WAMP** (Windows, Apache, MySQL, Python/PHP) architecture and **MVC struts**.
* Experience with **Python** **Libraries** such as **HTTPLib2, Urllib2, Beautiful Soup, Numpy, Scipy, Pickle, Pandas and Matplotlib**.
* Experienced in developing web-based applications using **Python**, **Django**, **PHP**, **XML**, **CSS** **5**, **HTML**, **DHTML**, **JavaScript**, **RabbitMQ**, **Jdk1**.7, **JQuery**, **Angular.JS** and **Knockout.JS.**
* Extensively used **Python** / **Django** Framework for developing backend of web applications.
* Developed **RESTful** **API's** using **Django** **REST** Framework, consumed via Restangular, a 3rd party Angular.JS service.
* Experience in Implementation of **MVC/ MVW** architecture using **Servlet**, **Django**, and **RESTful**, **SOAP** **web** **service** and **SOAPUI.**
* Developed web applications and RESTful web services and APIs using **Python** **Flask**, **Django** and **PHP.**
* Experience in Web development with **Python** and **Django**, **SQL**, **ETL**, **Bash**/**Linux**, Asynchronous task queues with **Celery** and **RabbitMQ**.
* Experienced in using internal tools in **PyDev, Pycharm, Brackets, Eclipse, JBuilder, JDeveloper** and **NetBeans** for debugging and worked with **Sublime** **Text** **2**, **Vim** **Editors** for coding.
* Expertise in developing applications using **Java, J2EE Technologies (Servlets, JSP, Java Web Services, EJB, Struts), JDK, Java Applets, JDBC, XML, JavaScript, HTML, DHTML, CSS, SOAP.**
* Expertise in designing rich **Graphic User Interface(GUI)** and frontend layouts on the web using CSS, HTML, XML, DHTML, JavaScript, JSON, AJAX, XAML and JQuery, Bootstrap, Node.js, Angular.js, backbone.js, Require.js.
* Experienced in **SQL and PL/SQL programming, developing complex code units, database triggers** and using the latest features to optimize performance (Global Temporary Tables, Inline views, Materialized views and Bulk Binds).
* Experience in relational databases like **Oracle 11g/10g/9i/8i, MS SQL server**, developing PL/SQL packages, Stored Procedures, Functions, Views, Indexes, Triggers, XML join, user defined data types and other complex queries.
* Contributed in migrating data from Oracle database to **Apache** **Cassandra** (a **NoSQL** database) using **SSTable** **loader**.
* In-depth understanding of **MongoDB** **HA** **strategies**, including **Replica** **sets** and **Sharding.**
* Knowledge of **Hadoop** Architecture and various components such as **HDFS**, **Map** **Reduce**, **Hadoop** **GEN2** **Federation**.
* Developed the required XML Schema documents and implemented the framework for parsing **XML** documents.
* Excellent Experience and knowledge in using **XML**, **SOAP**, web Service for inter operable software applications.
* Automated the **data** **processing** to automate data loading into the **Hadoop** **Distributed** **File** **System**
* Proficient with **Apache Web Server 2.0, MySQL 5, CVS, UNIX Shell Script, Firefox 3.5, IE 6 Browser Compatibility Issues, IIS and Linux**.
* Experience in all phases of Software Development Life Cycle (**SDLC**), which includes Requirements Specification, Design documents, Integration, Documentation and writing Test cases using various software engineering process ranging from Waterfall to Agile methodology.
* Experience in project deployment using Jenkins/Heroku and using web services like **Amazon Web Services (AWS) EC2 and AWS S3**
* Have knowledge in Installing and Configuring **JBoss** **6.0** on Dev, Test, Training and Prod Environments and provided support.
* Experience in Functional Services Testing, **GUI** Testing, Back-end Testing using **SQL**, Browser Compatibility Testing, Web Services Testing, System Testing and profound knowledge in Test plans, **Test Cases** and **Test Scripts**.
* Experience in writing functional/unit **Rspec** tests using **TDD**/**BDD** built base test framework around mobile site.
* Have knowledge in Installing and configuring **puppet**master for **prod**, **staging** and **Test** environment.
* Good knowledge in Installation and Configuration of **Oracle Identity Manager (OIM), Oracle Access Manager (OAM), WebLogic Server and SOA** suite for deploying identity management stack.
* Experienced in various types of testing such as **Unit testing, Integration testing, Functional testing and User acceptance testing**.
* Expertise in creating **Scrum stories, Agile Methodologies**, Sprints experience in **Python** based environment, along with **data analytics, Excel data extracts and data wrangling**.
* Software experience in **Python**, **C/C++** on **Linux**, **Windows**, Cross-platform and embedded systems.
* Extensive knowledge on automated batch programs by **Linux/UNIX shell Scripts** (such as file download, file Validation, assign permissions and workflow executions).
* Experience with virtualization tools, used for supporting and hosting **OIM** Components, such as Oracle **Virtual Box, VMware Workstation, Oracle VM Server** and **VMware vSphere.**
* Experienced in **Version** **controls** using **Git**, **SVN**, **CVS** and **GitHub**.
* Experience in working on different Operating Systems such as **Windows Vista, Windows XP, Windows7, Linux, UNIX and OS X.**
* Excellent communication and interpersonal skills with ability to interact with individuals at all levels and can work as a part of team as well as independently.

**Technical Skills:**

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| *Programming* *Languages* | Python, JAVA, C#, C++ |
| *Query* *Languages* | SQL, PL/SQL |
| *Operating* *Systems* | Windows Vista/XP/7/8/10, Linux, Unix, OS X |
| *Deployment* *Tools* | AWS (EC2, S3, ELB, EBS, RDS, SES), Heroku, Jenkins, Azure |
| *Web* *Development* | CSS, HTML, DHTML, XML, JavaScript. Angular JS, JQuery and AJAX |
| *Web* *Servers* | WebSphere, WebLogic, Apache, Gunicorn |
| *Python* *Framework* | Django, Flask, Web2py and Bottle, Pyramid, Swagger, RabbitMQ |
| *Bug* *Tracking* *Tools* | Jira, Bugzilla, Junit, gdb |
| *Databases* | Oracle 11g/10g/9i, MySQL, SQL Server RC 2008 |
| *Cloud* *Computing* | Amazon EC2/S3, Heroku, Google App Engine |
| *Methodologies* | Agile, Scrum and Waterfall |
| *IDEs* | Sublime Text, PyCharm, Eclipse, NetBeans, jDeveloper, WebLogic Workshop, RAD |
| *Version* *Controls* | CVS, SVN, GIT and GitHub |
| *Virtualization* | VMware Workstation, virtual Box |

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| **Professional Experience** |

**State Farm, Richardson, Texas. September 2016 – Till date**

**Python Developer**

**Objectives: -**

* Created **RESTful** **API's** calls with server, parse output **json** data and perform field by field comparison in State Farm database.
* Created Python libraries that allow the transfer of data from **State farm SQL** **Database** to **Oracle** **Database.**
* Updated views and templates with **Python** and **Django's view controller** and templating language to create new functionalities to the website.
* Used python modules such as **xlrd**, **lxml** and **csv** to compare two files and log the differences.
* Responsible in writing **SQL** **queries** to query database and queries Censhare for data and returns it as a structure on success responses and throws exception on any errors.
* Implemented **Schema** **validation** using python module **jsonschema** to validate data in prior to API call to censhare.
* Used **Django’s ORM** (object-relational Mapper) to automate the transfer of data stored in State farm database tables into objects that are more commonly used in application code.
* Implemented and enhanced **CRUD** operations for the applications using the **MVC** architecture of **Django** framework and conducted code reviews.
* Developed scripts using **pandas** to easily perform read/write operations to CSV files, manipulate and compare data by columns.
* Automated different workflows, which are initiated manually with **Python** scripts and **Linux** bash scripting.
* Implemented full life cycle development of new web applications and modification of existing applications to add new components and features emphasizing **maintainability**, **reliability**, **scalability** and **performance**.
* Developed and maintained parsing modules, which read **CSV, XML** and **JSON** data from files and other **REST services**, processed the data.
* Involved in doing **AGILE (SCRUM)** practices and planning of sprint attending daily agile (SCRUM) meetings and **SPRINT** retrospective meetings to produce quality deliverables within time.
* Taken part in entire lifecycle of the projects including **Design, Development, and Deployment, Testing and Implementation** and **support**.
* Used **Python** **IDE’s** such as **PyCharm**, **sublime** **text** for developing the code and performing unit test and SIT.
* Involved in setting **SSH** connection and used **SFTP, FTP** protocols for file transfer between different operating systems.
* Developed **Node.Js** based **JavaScript** **application** that performs a series of mathematical calculations on the number of products and profiles data received from the web services and present the results in a database and also had knowledge of representing those results in a user-friendly price trend graph.
* Implemented **samba** **server** to deploy code from **Linux** environment to **windows** environment for easy development and testing of code.
* Built development environment using bug-tracking tools like **Jira**, **Confluence** and version controls such as **Git**, **GitLab** and **SVN**.
* Used **Vagrant** to install and configure virtual machines and hosted **personnel** **VM** which points to development environment.

**Environment:** Python2.7, Django1.7, Linux, MySQL, SQL, XML, JSP, JSON, Restful API, MVC architecture, GitLab, Pandas, Agile, Enterprise Scheduler, Bitvise SSH Client, Scrum, JIRA, GIT.

**Travel Port, Denver, Colorado. Jan 2016 – August 2016**

**Python Developer**

**Objectives: -**

* Responsible in upgrading their operating system from **OpenVMS** to **Linux** and converting all **DCL** programs to **Python**.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML**, **CSS**, **JavaScript** and **JQuery**.
* Implemented presentation layer using **CSS** framework, **NodeJS**, **AngularJS**, **Wire-Framing** and **HTML5**.
* Responsible for setting up **AngularJS** framework for UI development. Developed html views with **HTML5**, **CSS3**, **JSON** and **AngularJS**, **Adobe** flash.
* Created new **JSP** views to incorporate backend functionality to display on the UI screens using client rich technologies like **JQuery**, **JavaScript**, **HTML**, **CSS** files.
* Taken part in entire lifecycle of the projects including **Design, Development, and Deployment, Testing and Implementation** and **support**.
* **Python/Django** based web application, **PostgreSQL** **DB**, and integrations with 3rd party email, messaging, storage services.
* **Job scheduling, batch-job scheduling, process control, forking** and **cloning of jobs** and checking the status of the jobs using **shell** **scripting**.
* Worked on **Python** **OpenStack** APIs and used **Numpy** for Numerical analysis.
* Developed views and templates with **Python** and **Django's** view controller and templating language to created user-friendly website interface.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using **Django**, **Oracle** **DB**, **PostgreSQL**, and **VMWare** **API** calls.
* Developed a fully automated continuous integration system using **Git**, **MySQL**, **Jenkins**, and custom tools developed in **Python**.
* Managed datasets using Panda data frames and **MySQL**, queried **MySQL** database queries from **Python** using **Python** -**MySQL** connector **MySQLdb** package to retrieve information.
* Develop consumer based features and applications using **Python**, **Django**, **HTML**, Behavior Driven Development (**BDD**) and **pair** **based** **programming**.
* Designed and developed integration methodologies between client web portals and existing software infrastructure using **SOAP API's** and vendor specific frameworks.
* Used **JIRA** for bug tracking and issue tracking and added several options to the application to choose particular algorithm for data and address generation.

**Environment: -**Python 3.5, Django 1.7, CSS, HTML, JavaScript, Bootstrap, AJAX, JQuery, Pandas, MySQL, Servlets, Agile, Enterprise Scheduler, Bitvise SSH Client, Scrum, Heroku, JIRA, GIT

**Affinion Group, Stamford, CT Oct 2014- Dec 2015**

**Sr. Python Developer**

**Description:** Affinion Group is a private company based in Stamford, Connecticut that provides customer engagement and loyalty programs. This project involves to take a collection of scripts which collectively take an IOS formatted configuration file from user. Present results to the user in an interactive manner that allows the user to analyze the efficiency of the conversion.

**Responsibilities: -**

* Responsible for analyzing various **cross-functional**, **multi-platform** applications systems enforcing **Python** best practices and provide guidance in making long term architectural design decisions.
* Designed, developed and tested new **Python** tools for asset **liability** **management** (ALM) **programs** to manage the market risks of traditional life insurance products, variable and fixed annuities, and macro-economic risks that the enterprise faces.
* Experience with **ORM's** such as **Django** and **SQLAlchamy**, database design and normalization.
* Used **MVT** pattern to encapsulate **client/server** interactions helps to illustrate software-pattern roles as well as developer roles by separating object, components, and services into multi-tiers with well-defined boundaries.
* Gathering user requirements and **designing Database** accordingly which involves creating **Logical Data Tables** and **Visualization**.
* Worked on Element Tree **XML** **API** in **Python** to parse **XML** documents and load data into database and also from database to **XML** documents.
* Designed and developed integration methodologies between client web portals and existing software infrastructure using **SOAP API's** and vendor specific frameworks.
* Created numerous **Django** apps and extensively used **Django Session** and **authentication** management.
* Created new connections through applications for better access to **MySQL** database and involved in writing several **SQL/PLSQL** –functions, sequences, stored procedures, triggers, cursors and object types.
* Designed and developed data management system using **MySQL** and wrote several queries to extract/store data.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and **Python** **libraries**.
* Develop consumer based features and applications using **Django**, **HTML**, Python Behavior Driven Development (**BDD**) and pair based programming.
* Implemented **AJAX** to update necessary section of webpages and hence, avoiding the need for reloading the entire web page.
* Developed and tested many features in an **agile** environment using **Python**, **Django**, **HTML5**, **CSS**, **JavaScript**, **Bootstrap** and **Rspec**.
* Used numerous **JQuery** third party libraries in **Django** framework- feedback plugin, **photo light**, social-likes, **jQuery tables**, **slick grid** and **google charts**.
* Added support for Amazon **AWS S3** and **RDS** to host static/media files and the database into **Amazon** **Cloud**.
* Implemented **LDAP** authentication using device to integrate with an in-place web **seal/TAM** infrastructure.
* Wrote script to generate IP address from **CIDR** and write into **JSON** files and assign them to virtual machine while **cloning**.
* Built task monitoring script to monitor various tasks such as power-on a virtual machine after **cloning**, clone virtual machine and reboot virtual machine using **pyvmomi**.
* Analyzed existing complex systems to understand and document data elements, relationships, data flows, dependencies and related interfaces.
* This project also used other technologies like **JQuery** for **JavaScript** manipulations, **bootstrap** for the front-end html layout.
* Understood the project scope, identified activities/ tasks, task level estimates, schedule, dependencies, risks and provided inputs to Module Lead for review.

**Environment: -** Python 3.4, Django 1.8, Linux, HTML5, CSS, Bootstrap, MySQL, SQL, PLSQL, XML, Heroku, JavaScript, JQuery, JSP, JSON, Restful API, MVC architecture, AWS EC2, GitHub, Rspec, Cucumber, Swagger.

**BNSF Railway, Irving, Tx. Dec 2013-sep 2014**

**Python Developer**

**Responsibilities:**

* Created **APIs**, database Model and Views Utilization **Python** in order to build responsive web page application.
* 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.
* Wrote and executed various MySQL database queries from **Python** using **Python-MySQL** connector and **MySQL dB package**.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **CSS, HTML, JavaScript, and JQuery**.
* **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**.
* Developed **GUI** using **webapp2** for dynamically displaying the test block documentation and other features of Python code using a web browser.
* Involved in design, implementation and modifying the **Python** code and **MySQL** database schema on-the back end.
* Developed user friendly and sophisticated **graphical** **representation** of the catalogue of items that would be configured for a piece of equipment.
* Hands-on experience in writing and reviewing requirements, **architecture documents, test plans, design documents, quality analysis** and **audits**.
* Generating various capacity planning reports (graphical) using Python packages like **Numpy**, **matplotlib**.
* Python Object Oriented Design code for manufacturing **quality**, **monitoring**, **logging**, and **debugging** **code** **optimization**.
* **Job scheduling, batch-job scheduling, process control, forking** and **cloning of jobs** and checking the status of the jobs using **shell** **scripting**.
* Monitoring Python scripts run as **daemons** in the **UNIX**/**Linux** system background to collect **trigger** and feed arrival information. Helped calculating **SLA** misses.
* Work on **SCR's** (source change request). Which involved working on **Perl**, **Python**, **PHP** and **Shell** **Scripting**.
* Created **Python**/**MySQL** back-end for data entry from Flash. I had to assist the Flash developer send the correct data via query strings. Used **Wire** **shark**, **live http headers**, and **Fiddler2** debugging proxy to debug the Flash object and help the developer create a functional component.
* Developed Restful API's using Python Flask and **SQLAlchemy** data models as well as ensured code quality by writing unit tests using **Pytest**.
* Used **JIRA** for bug tracking and issue tracking and added several options to the application to choose algorithm for data and address generation.

**Environment:** Python 2.7, Django 1.7, CSS, HTML, JavaScript, Bootstrap, Apache Web Server, AJAX, JQuery, Pandas, MySQL, Restful APIs, JavaBeans, Servlets, Agile, Scrum, Heroku, JIRA, GIT.

**DISCOVER River Woods, Illinois. Jan 2013 – Nov 2013**

**Responsibilities:**

* Developed **Python** scripts to read from Excel files, generate **XML** configuration files and for generating IP access frequency lists in different **data** **logs**.
* Designed email marketing campaigns and created responsive **web** **forms** that saved data into a database using **Python**/ **Django** Framework.
* Generated **Python** **Django** **Forms**, **Crispy** **forms** to record data, login and signup of online users.
* Learned technical skills that are required for the system like **CherryPy**, **Django, Flask, Pandas, JIRA,** and **Heroku** etc**.**
* Collaborated with a team of instructors and programmers to develop the curriculum and guidelines for workshops to teach the logic of programming.
* Worked for development and enhancements of all the modules of **raildocs** and have them running it the design team for project structure.
* Successfully migrated the Django database from **SQLite** to **MySQL** to **PostgresSQL** with complete data integrity.
* Upgraded **Python 2.5** to **Python 2.7** on a **RHEL** server. This upgrade was necessary because in lined models with **UTF**-**8** characters were causing unexpected errors.
* Developed Application to access **JSON** and **XML** from **Restful** **Web** **Service** from consumer side using **JavaScript** and **Angular**.**JS**.
* Expertise in developing web-based **LAMD** stack applications using **Python** and **Django** for large dataset analysis.
* Designed and Implemented a **Random Unique Test Selector Package** on processing large volume of data using **Python** and **Django** **ORM**.
* Developed and implemented the user registration and login feature for the application process from scratch by extending Django user model.
* Write a wrapper program in **Python** to automate the entire process like running different executables of **FORTAN** and call the Java swing program.
* Database Administration activities like taking backup, checking log messages, looking for database optimization.
* Learned how to create specific images using **Python** Imaging Library for the custom images used for each book.

**Environment:** Python 2.7, RabbitMQ, FORTAN, XML, WSDL, CherryPy, Flask, Django, Pandas, MySQL, CSS, HTML, Jenkins, Google App Engine.

**GGK Tech, Hyderabad, India Apr 2010 - July 2012**

**Java UI Developer**

**Description:** GGK Tech key services include Application Development and Application Maintenance, Business Intelligence and Analytics, Enterprise Mobility, Infrastructure Management Services.

**Responsibilities:**

* Developing, modifying, fixing, reviewing, testing and migrating the **Java, JSP, XML, Servlet, SQLs, JSF, Spring** and **hibernate programs.**
* Used **J2EE** design patterns like **Singleton, command, Factory, Business Delegate, Session façade, Service locator, Transfer object** and **view object** for developing enterprise application.
* Used **multithreading** concepts while creating **DAO** classes. Used **multithreading** in programming to improve overall performance.
* Worked on creating various documents that include **Use Cases, Class Diagrams, Sequence Diagrams** and **Activity Diagrams**.
* Developing Responsive Design **UI Rich Rest Service** Applications, Single Page Applications and **HTML** Wireframes using **HTML5 Grid Structures/Layouts, CSS3 Media Queries, Ajax, Angular JS** and **Bootstrap.**
* Worked on **SOAP** Web services using **C++** in multi-threaded application development processing **XML** requests.
* Involved in creating various **Data Access Objects (DAO)** for addition, modification and deletion of records using various specification files.
* Used **SOAP UI** to test the web services, created cases SOAP UI **test** and worked on SOAP composite projects.
* Base on client requirements upgrading, developing and managing Software Application using knowledge of C++.
* Involved in the development of business module applications using **J2EE** technologies like **Servlets**, **Struts**, **JDBC** and **ODBC**.
* Involved in web designing using **HTML 4/5, XHTML, CSS 2/3, JQuery, JavaScript** extensively used Table less Design in CSS for positioning.
* Involved in the development using Spring **Model View Controller (MVC)** with Data access/integration layer consists ORM module.
* Designing classes using design pattern methodologies such as **Singleton, Service Locator,** and **DAO** factory and session façade patterns. Involved in Performance tuning.
* Created tables, complex join queries, s**tored procedures, views, Types, triggers** and **functions** and modifications to existing database structure as required for addition of new features using SQL developer.

**Environment:** Java, J2EE, Oracle 11g, Unified Modelling Language(UML), XML, Web services, SOAP, Angular JS, Junit, RAD, CSS, HTML, DHTML, XSL, XSLT and MySQL.

**Patni Computer Systems, Hyderabad, India Aug 2008 - Mar 2010**

**Java Developer**

**Description:** Patni Computer Systems is based telecommunication consulting service provider through its wholly owned subsidy Patni Computer Systems. Patni has noteworthy technical expertise in the fields of enterprise applications, enterprise systems management, e-business and embedded technology.

**Responsibilities:**

* Utilized the various **J2EE** Design patterns to develop the Business modules based on the required functionality.
* Developed **user interface** (view component of **MVC** architecture) with **JSP**, **Struts** **Custom** **Tag** **libraries**, **HTML** and **JavaScript**.
* Worked with **AJAX** framework to get the asynchronous response for the user request and used JavaScript for the validation.
* Extensively Used **Ant** **tool** to build and configure **J2EE** applications and used **Log4J** for logging in the application.
* Responsible for designing different **JSP** **pages** and writing Action class using **Struts** **framework** for Security, and Search modules.
* Automated the **HTML** and **JSP** **pages** indexing process of search module using **Apache** **Ant** **tool** and **singleton** **design** **pattern**.
* Used **Enterprise Java Beans (EJBs)** extensively in the application. Developed and deployed Session Beans to perform user authentication.
* Implemented client side validations for Search and Security modules using **JavaScript** and **Struts** Validation Framework.
* Involved in doing Waterfall and Incremental model practices and planning to produce quality deliverables within time.
* Adopted **J2EE** **best** **practices** using **J2EE** design patterns for designing and developing the application components.
* Implemented Web service calls using **JAX**-**WS** and **SOAP** that provide Global information support such as Customer and Account management.

**Environment:**

Java, J2EE, Java Server Pages (JSP), JavaScript, Servlets, JDBC, ODBC, Struts Framework, Junit, XML, WebLogic Application Server.