**Ravali.G**

**Python Developer**

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**Professional Summary:**

* Around 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.
* Vigorous knowledge in progressing web applications and effectuating Model View Control architecture using Django web application framework.
* 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**.
* Basic understanding of protocols/technologies like **HTTP, LDAP, JDBC, SSL, Servlet/JSP, SQL, HTML, XML**.
* Written code in **Perl** to develop and **deploy continuous test cases**, in combination with CI tools like Jenkins.
* Involved in creating a platform for Validators where they could run scripts from **R, Python and Java.**
* Implemented features using **Python, C++ and Core JAVA.**
* Developed **Unix Shell scripts, Perl scripts and SQL control files** to load data through SQL Loader.
* Developed all **business CRUD operations using RESTFUL services**.
* Good knowledge on **front end frame works like CSS Bootstrap**.
* Experience with **Design, code, and debug operations, reporting, data analysis and web applications** utilizing Python.
* Experience in ETL (Extraction, Transformation and Loading) using Data transfer services **(DTS)**, Service Broker and SQL Server Integrated Services **(SSIS)** fromvarious Data sources.
* Experienced on writing **SQL, T-SQL**, stored procedures, triggers, and functions in MS SQL Server [].
* Expert in **Data Validation either for the migrated data or for the existing data**.
* Implemented **infrastructure, performed DevOps tasks (CI, CD) using Jenkins, Docker, Ansible, Supervisor, Kibana**.
* Migrated and **configured earlier versions into new infrastructure**, codebase and schema.
* Performed legacy **data migrations and backups, schema upgrades** and maintenance using Pewee, MySQL, yoyo-migrations, Pickle.
* Experienced in all facets of full CM process with tools such as SVN, GIT, PVCS, Clear Case, Clear Quest, Perforce, **Cruise Control, Jenkins, Bamboo, Chef** and Puppet.
* Experienced in **creating AWS IAM** and Security Group in Public and Private Subnets in VPC. Created **AWS Route53** to route traffic between different regions.
* Experience in writing Terraform scripts for **AWS infrastructure**.
* Worked **DevOps methodologies** and cloud infrastructure automation tools like **AWS, Chef** by using Terraform.
* Used **Spark API** over Cloudera **Hadoop YARN** to perform analytics on data.
* Exploring with the Spark improving the performance and optimization of the existing algorithms in Hadoop using **Spark Context, Spark-SQL, Data Frame**, Pair RDD's, Spark YARN.
* Strong experience in **Big data, Bigdata Integration** and **Analytics** technologies including **Apache Spark, Hadoop, Kafka, Storm**
* Good Experience with **Django**, a high-level Python Web framework.
* Sound experience in Object Oriented Programming using concepts like **Multi-Threading**, Exception Handling and Collections.
* Knowledge about setting up Python **REST API** Frame work using **Django**.
* Experience in working with Python ORM Libraries including **Django ORM**.
* Experience in implementing Model View Control (MVC) architecture using server-side applications like **Django, Flask** and **Pyramid** for developing web applications.
* Extended Testing framework by adding some helper classes and methods
* Good Knowledge in implementation of Python best Practices (PEP-8).
* Good at writing **SQL Queries, Stored procedures, functions, packages, tables, views, triggers** using relational databases like **Oracle, MySQL, DB2**.
* Proficient in using editors **Eclipse, PyCharm, PyScripter, Notepad++** and **Sublime Text** while developing different applications.
* Experienced in developing test automation framework with **Python scripting& Selenium**.
* Having good knowledge in using **NoSQL** databases like **Apache Cassandra** (1.2, 2.0 and 2.1), **Kubernetes** and **Mongo DB** (2.6, 2.4), **Orient DBF net**.
* Having experienced in **Agile Methodologies, PCI, Scrum stories** and **sprints** experience in a Python based environment, **Data analytics, data wrangling** and **Excel** data extracts.
* Worked on various operating systems like **Windows, UNIX** and **LINUX**.
* Experienced in **Shell Scripting and UNIX commands**.
* Shares expertise throughout the organization and may provide user training for products
* Excellent in **Business Analytics. Interpersonal and communication skills, efficient time management** and **organization skills**, ability to handle multiple tasks and work well in team environment.

**Technical Skills:**

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| --- | --- |
| **Programming Languages** | C, C++, Java, Python-3.5 & 2.7, SQL and Shell Scripting, Perl, R |
| **Python Libraries** | Python, Django, Flask, Beautiful Soup, httplib2, Jinja2, HTML/CSS, Bootstrap, jQuery, Numpy, Matplotlib, Pickle, Pyside, SciPy, wxPython, PyTables, pdb |
| **Frameworks** | Django, Spark, web2py, pyramid, Flask, Mongodb, Hadoop/ Big Data and CSS Bootstrap |
| **Technologies** | HTML, CSS, DOM, SAX, Java Script, JQuery, AJAX, XML, Angular JS |
| **Version Control** | GIT (GitHub), SVN |
| **Protocols** | TCP/IP, HTTP/HTTPS, SNMP, SMTP |
| **IDE's/ Development Tools** | NetBeans, Android Studio, Py Charm, Eclipse and Sublime Text. |
| **Application Tools** | Net Beans, Eclipse (SE, EE, Android), Visual Studio, MySQL |
| **Deployment Tools** | Heroku, Jenkins |
| **Tracking Tools** | Bugzilla and JIRA. |
| **Methodologies** | Agile, Scrum and Waterfall |
| **Databases** | Access, SQL Server, MySQL, Teradata, Oracle. |
| **Software packages** | MS Word, Advanced MS Excel, MS PowerPoint, SQL Plus |
| **Reporting Tools** | SSRS, Tableau, MS-Word, and MS-PowerPoint. |
| **Operating systems** | Linux/Unix, Windows Variants . |
| **Cloud Environment** | AWS Services, EC2, ELB, VPC, RDS, AMI, IAM, Cloud formation, S3, Cloud Operating Systems, |

**Education:** Bachelor's JNTU Hyderabad, Telangana

**Professional Experience:**

**Samsonite - Mansfield, MA Feb 2017 – Till Date  
Python Developer**

**Description:** Samsonite is the worldwide leader in superior travel bags, luggage, and accessories combining notable style with the latest design technology and the utmost attention to quality and durability. We are principally engaged in the design, manufacturing, sourcing, and distribution of luggage, business and computer bags, outdoor, casual bags, travel accessories and slim protective cases for personal electronic devices.

**Responsibilities:**

* Designed and developed the server module and resolved issues and responsible for its enhancements.
* Architected and developed Python and Django for the backend development and front-end application using React, Webpack, Redux, and ES6/7 and PostgreSQL for the database.
* Worked on **Django ORM** module for signing complex queries.
* Worked extensively with **Core Java to develop code in Service Layer**.
* Followed the **Object-Oriented Analysis and Design** (OOAD).
* Defined the process of User A**cceptance Testing for Data Migration** and responsible in creating **Testing Guides, Instruction Packets and Data Samples**.
* Loaded the data from Teradata to HDFS using **Teradata Hadoop connectors**.
* Development of the new **Perl scripts via end client interaction**.
* Providing production support during the week end if there is application down.
* Performs troubleshooting for **escalated issues, upgrades and deployments** for complex environments. Has in-depth knowledge of a majority of computer Provides guidance to lower level technical specialist on specific functional tasks
* Conduct **unit and regression testing** for the scripts which have been developed.
* Develop **shell scripts** based on the requirement.
* Implementing Code (**Perl/Unix Shell scripts**) and writing unit test **cases** for the same.
* Developed **Spark code and Spark SQL/Streaming** for faster testing and processing of data.
* Developed a **data pipeline using Kafka, HBase, Spark and Hive** to ingest, transform and analysing customer behavioural data also developed Spark jobs and Hive Jobs to summarize and transform data.
* Hands on experience in **Amazon Web Services, AWS provisioning and good knowledge of AWS services like EC2, S3, Red shift, Glacier, Bamboo, ELB (Load Balancers), RDS, SNS, SWF and EBS etc and Azure.**
* Implemented **infrastructure** **(AWS, Ubuntu).**
* Managing Exchange 2010 and 2013, **active directory, DNS, DHCP**, and terminal servers
* Effective use of **PuTTY, Dame Ware, Active Directory, and BMC** Remedy.
* Routine F-5 Load Balancer, ASA wireless, Palo Alto config.
* Responsible for 6500, 3500, Nexus 5500-7009 switching, ASA, FWSM Firewalls, CSS and F5 load balancers, Riverbed WAN accelerators, IronPort Proxy, and Linux/Bind DNS servers.
* Responsible for **general troubleshooting of the F5 load balancers**. Extensive knowledge of Load balancing technology including health check options, I Rules implementation and licensing F5 Big-IP load balancer devices.
* Implemented Identity Management Flow using SAML - Identity Provider, Resource Provider, SAML2
* Documented, architected and implemented the flow.
* Migrating a production infrastructure into an **Amazon Web Services utilizing AWS Cloud Formation, Code Deploy, EBS and Ops Works**.Build servers using **AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs)** in the defined virtual private connection and open stack to provision new machines for clients.
* Defined different Django API profiling techniques for faster rendering information.
* Used **Ansible, Vagrant, and Docker** for managing the application environments.
* Developed Python scripts for testing the car functioning on different services.
* Worked with **Splunk** for testing the performance and debugging server level problems.
* Implemented various Validation Controls for form validation and implemented custom validation controls using Object Oriented JavaScript.
* Working close together with QA and Operations teams to understand, design, and develop and end-to-end data flow requirements.
* Used React JS in components like **JSX, creating React components, Virtual DOM, React Props, Lifecycle methods,** working with the React States and Events.
* Developed Restful **MicroServices** using Flask and Django and deployed on AWS servers using EBS and EC2.
* Developed views and templates with Django view controller and template to create a user-friendly website interface.
* Worked on **Django** and **RabbitMQ** queues.
* Imported data using **Sqoop** to load data from MySQL to HDFS on regular basis.
* Used Circle CI for continuous integration and delivery platform over GIT.
* Used Django Migrations for designing and expanding of the database.
* Automated most of the daily task using python scripting.
* Involved in the CI/CD pipeline management for managing the weekly releases.
* Worked on Jira for managing the tasks and improving the individual performance.
* Making recommendations to the team in terms of appropriate testing techniques, shared testing tasks.

**Environment:** Python 2.7, AWS, Devops, Mango DB, Django, Django Rest, Flask, React, Redux, Circle CI, Vagrant, Splunk, New Relic Server, GitHub, Ansible, HTML5/CSS, PostgreSQL, Amazon Web Service (AWS), S3, EC2, EBS, PyCharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA.

**Target - Minneapolis, MN Nov 2015 – Jan 2017**

**Python Developer**

**Description:** Target is recognized as a leader in innovation across the retail industry. From pioneering the concept of designer partnerships to consistently being best in class in store design, Target remains focused on not only meeting, but exceeding, its guests' needs.

**Responsibilities:**

* Involved in analysis, specification, design, and implementation and testing phases of Software
* Development Life Cycle (SDLC) and used agile methodology for developing application. Upgraded existing UI with HTML, CSS, jQuery and Bootstrap.
* Working as an application developer experienced with controllers, views and models in Django.
* Used Salt Stack to configure and manage the infrastructure.
* Restful web services using **Python REST API Framework**.
* Monitor and maintain application infrastructure performance
* Work with multiple teams including App Svc, Tech Svc, Vendors, and the business for application infrastructure metrics, diagnostics and troubleshooting.
* Create and maintain test plans for infrastructure upgrades, patches, and fixes.
* Involved in designing and deploying multitude applications utilizing almost all of the **AWS stack** (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, **fault tolerance, and auto-scaling in AWS Cloud Formation**.
* Automated Regular **AWS tasks like snapshots** creation using Python scripts.
* Build servers using **AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs)** in the defined virtual private connection.
* Managed Virtual servers (Ubuntu, Linux and Windows) on **AWS EC2 using Open-Source Chef server.**
* Experienced with batch processing of data sources using **Apache Spark.**
* Experienced in implementing **Spark RDD transformations**, actions to implement business analysis.
* Implemented **Spark using Scala and Spark SQL** for faster testing and processing of data.
* Deployed and monitored scalable infrastructure on **Amazon Web Services (AWS) & configuration management using Chef**
* Implemented the application using **Python Spring IOC** (Inversion of Control), Django Framework and handled the security using Python Spring Security.
* Tested entire frontend and backend modules using Python on Django Web Framework.
* Responsible for handling the integration of database systems.
* Developed Server-side automation using Node JS scripting and connecting different types of **SQL and NoSQL** stores from Node JS.
* Used object-relational mapping (ORM) solution, technique of mapping data representation from MVC model to Oracle Relational data model with an SQL-based schema
* Implemented Performance tuning and improved the Performance of Stored Procedures and Queries.
* Installed and configured **py Builder** for application builds and deploying it.
* Used Selenium Library to write fully functioning test automation process that allowed the simulation of submitting different we request from multiple browser to web application
* Developed and Deployed SOAP based Web Services on Tomcat Server
* Used Jenkins for continuous integration for code quality inspection and worked on building local repository mirror and source code management using Git hub.
* Used IDE tool to develop the application and JIRA for bug and issue tracking.
* Wrote unit testing codes using unit test, resolving bugs and other defects using Firebug,
* Used JIRA to assign, track, report and audit the issues.
* Used GIT to coordinate team development.

**Environment:** Python, Django Web Framework, AWS, HTML, CSS, NoSQL, JavaScript, JQuery, Sublime Text, Jira, GIT, py Builder, unit test, Firebug, Web Services.

**WPS Health Solutions - Monona, WI Apr 2015 – Oct 2015**

**Python Developer**

**Description:** This project involves testing of WPS Health Solutions Mobile application on Android, and iOS devices. WPS Health Solutions is medical apparatus and equipment for use in electronic acquisition, capture, processing, presentation, storage and transmission of patient's medical and physiological data for use in programming, monitoring and testing implanted cardiac devices.

**Responsibilities:**

* Defining the scope of testing within the context of each release / delivery.
* To test Sirius Programmer Mobile Application on Android and iOS devices using **See Test test automation tool**.
* Deploying and managing resour ces for testing.
* Analyzing test requirements and developing test scripts.
* Planning, deploying and managing the testing effort for any given engagement.
* Developing test automation framework using python and **See Test APIs**.
* Developing Requirement **Traceability Tool** using python.
* Coordinating with the development team for any assistance in issue reproduction and testing.
* Executing test scripts using **Visual Studio, MTM and See Test tool**.
* Involved in Code reviews and Test Case reviews.
* Prepare any risk mitigation plans if in case any delays are foreseen.
* Training new joiners on test reporting, test automation, and test management.

**Environment:** Python, Pytest, Pylint, Microsoft Visual Studio, Microsoft Test Manager, See Test automation Tool, and TFS.

**Par Pharmaceutical - Montebello, NY Dec 2013 – Mar 2015**

**Python Developer**

**Description:** The Project is to development of drug development and treatment tracking system. Also, there was Worked on conversion of Sales/Back Office Integration system from PHP to Python/Django System.

**Responsibilities:**

* Involved understanding the current business process, defining scope of the project along with position statement.
* Re-engineered various modules for implementing changes and creating efficient system.
* Developed dynamic web pages using python Django Frameworks.
* Used Python and **Django creating graphics, XML processing, data exchange** and business logic implementation.
* Supported **Apache Server on Linux Platform**.
* Installation and setting up **Python/Unix** test beds
* Created use-case scenarios and storyboards in MS Word and MS PowerPoint for better visualization of the application.
* Write Automation/test python scripts to test.
* Flex development exposure of Flex layout and navigation, event handling, pop-up dialogs, menus and skinning.
* Used **HTML, CSS** for front-end applications.
* Used python scripts to update content in the database and manipulate files.
* Resolved issues and improvised the process to ensure a stable and accurate solution.
* Generated Python Django Forms to record data of online users
* Python OO Design code for manufacturing quality, monitoring, logging, and debugging code optimization
* Responsible for analysis, design, development and integration of Market Risk applications with JAVA/PYTHON.
* Held meetings with client and worked all alone for the entire project with limited help from the client.
* Worked on writing and as well as read data from csv and excel file formats
* Provided technical and business knowledge to clients.
* Analyzed data using Excel VBA scripts and Macros
* Working with the architect, developers on business and technical issues, helping in designing the system; and testers to ensure all requirements are correctly translated.
* Managed requirements and tasks using JIRA
* Automate the outbound/inbound EDI document to drop files in the client ftp server
* Data mapping, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data within the Oracle database.

**Environment:** MS Visio, JIRA, UML, Python 2.7, Sublime text2(IDE) Windows 7, SQL, Requests, urllib, urllib2, Beautiful soup, Django.

**North Face Holdings – Hyderabad Aug 2009 – Nov 2013**

**Python Developer**

**Responsibilities:**

* Work with team of developers on python applications for RISK management.
* Design, develop, test, deploy and maintain the website.
* Designed and developed the UI of the website using **HTML, AJAX, CSS and JavaScript**
* Designed and developed data management system using **MySQL**.
* Rewrite existing Python/Django modules to deliver certain format of data.
* Used **Django Database API's** to access database objects.
* Wrote python scripts to parse XML documents and load the data in database.
* Handled all the client-side validation using JavaScript.
* Expertise in writing **Constraints, Indexes, Views, Stored Procedures, Cursors, Triggers**, and User Defined function.
* I have also used Selenium Library to write fully functioning test automation process that allowed the simulation of submitting different we request from multiple browser to web application.
* Used **JQuery** for all client-side Java script manipulation.
* Created unit test/regression test framework for working/new code
* Using Subversion control tool to coordinate team-development.
* Developed entire **frontend and backend modules** using Python on Django Web Framework.
* Responsible for debugging and troubleshooting the web application.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.

**Environment:** Python, Django 1.3, MySQL, Linux, HTML, XHTML, SVN, CSS, AJAX, Bugzilla, JavaScript, Apache Web Server, Django