**Sandeep**

**Python Developer**

[**srisandeep345@gmail.com**](mailto:srisandeep345@gmail.com)

**720-549-2780**

**Professional Summary:**

* Over **8+ Years** of combined work experience in Analysis, Design, Big Data, Web Application Development, Management and Implementation of various stand alone, client-server enterprise applications.
* Extensive experience in Text Analytics, developing different Statistical **Machine Learning, Data Mining** solutions to various business problems and generating data visualizations using **R, Python and Tableau.**
* Hands on experience in using **Hadoop ecosystem** components like **MapReduce**, **HDFS**, **HBase**, **Hive**, **Pig**, **Flume** and **Spark.**
* Good experience in **Python, Django, Hadoop, Flask, Pyramid, Ansible, Docker, CI/CD**
* Experience in implementing server side technologies with **RESTful APIs** and **MVC**/**MVT** design patterns using **Django**/**Flask frameworks.**
* Having experienced in **Agile** Methodologies, **Scrum** stories and sprints
* Experienced in developing web-based applications using **Python**, **Django**, **AWS**, **WSGI**, **PostgreSQL**, **Redis**, **HTML**, **CSS**, **JavaScript**, **JQuery**, and **XML**.
* Experience in version control systems using **CVS**, **SVN** and **Git**/**GitHub** and issue tracking tools like **Jira** and **Bugzilla**.
* Experience in using **Docker** and **Amazon web services** (AWS) infrastructure with automation and configuration management tool such as **Ansible**.
* Experienced in **MVW** **frameworks** like **Django, Angular.js, JavaScript, JQuery and Node.js.**
* Experienced in **WAMP** (**Windows**, **Apache**, **MYSQL**, **Python**/**PHP**), and **LAMP** (**Linux**, **Apache**, **MySQL**, **Python**/**PHP**) **Architecture**.
* Expert knowledge and experience in Object oriented Design and Programming concepts.
* Proficient in SQL databases **MySQL, PostgreSQL, Oracle and No**SQL databases **MongoDB, Cassandra, HBase.**
* Experience with **Web Services(SOAP, REST)**. Effective in executing multiple tasks and assignments ahead of schedule.
* Well versed in writing test cases using **Nose, unit test and Robot test frameworks**
* Excellent experience with **Python** development under Linux/Unix OS **(Debian, Ubuntu, SUSE Linux, Red Hat Linux, Fedora)** and **Windows OS.**
* Hands on **SVN, Git, JIRA, Bugzilla, Amazon EC2/S3.**
* Hands-on experience in **UNIX**, and **Linux** **Kernels**.
* Expertise in back-end procedure development, for **RDBMS**, **Database** **Applications** using **SQL** and **PL/SQL.** Hands on experience on writing Queries, Stored procedures, Functions and Triggers by using SQL.
* Experience in design and manage API system deployment using fast http server and Amazon AWS architecture.
* Experience in the field of Data warehouse using ETL tools such as **Informatica** Power Center, Power Mart 9x/8x databases as **DB2**, Oracle, MS SQL Server and **Teradata**.
* Capable of processing large sets of structured, semi-structured and unstructured data and supporting systems application architecture
* Experience in leading multiple efforts to build **Hadoop platforms**, maximizing business value by combining data science with big data.
* Experience with Configuring **AWSEC2instances**, **EMR cluster** with **S3buckets**, **Auto**-**Scaling groups** and **CloudWatch.**
* Experienced in developing Object Relation Mappings using Hibernate, JDBC, Spring JDBC and Spring Data with RDMS (Oracle, DB2, and MySQL) and NoSQL (MongoDB, Cassandra) databases.
* Involved in entire life cycle of the projects including design, development, and deployment, testing, implementation and support.
* A Self-starter with a positive attitude, willingness to learn new concepts and acceptance of challenges.
* Good Experience with Network Communication Protocols and High-scalability Architecture

**Educational Qualifications:**

* Bachelor of Technology in Computer Science and Engineering(May 2009)

**Technical Skills:**

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| --- | --- |
| Python Libraries | Report Lab, NumPy, SciPy, Matplotlib, HTTPLib2, Urllib2, Beautiful Soup, Pickle, Pandas, PyPI, PySpark, Pygit. |
| Programming Skills | Python, C, C++ and Java, Shell Script, & Perl. |
| Web Technologies | Django, HTML5, CSS3, JavaScript, JSON, jQuery, AJAX, Node JS, and Bootstrap. |
| Frameworks | Django, spring, Angular JS and Flask. |
| IDE’s | PyCharm, Sublime, Eclipse, Spyder and NetBeans, Atom, Sublime Text, Visual Studio. |
| Database | Oracle SQL, SQLite, MySQL, PL/SQL, PostgreSQL. |
| Operating Systems | LINUX, UNIX, WINDOWS & MAC. |
| Cloud Technology | AWS. |
| Web Services | Nginx, Apache Tomcat, SOAP, Apache Kafka, AWS, Amazon EC2, REST. |
| Network Protocols | TCP/IP, HTTP, DHCP, SNMP, SMPT. |
| Servers | Apache Tomcat and Web Logic. |
| Version Control Tools | CVS, Git, GitHub and SVN. |
| Development Process | Waterfall, Agile and Scrum. |
| Bug Tracking Tool | JIRA. |
| Deployment Tool | Heroku and Jenkins. |

**Professional Experience**

**Client:** 84.51°**,Cincinnati,OH. Jun 2017 - Till date**

**Role: Python/Spark Developer**

**Description:** 84.51° is devoted to helping retail partners develop, nurture and embrace customer-driven relationships. By using a sophisticated suite of tools and technology, our fearless people navigate the complex data landscape to reveal relevant customer patterns. We believe if you dig deep enough, the results will follow—and building the bottom line should be a result, not the primary objective.

**Responsibilities:**

* Designed and Developed application using **Python, Django, MySQL** and **Linux**
* Worked with offshore teams and internal clients to Design and analyze the requirements.
* Worked on **LAMP (Linux, Apache, MySQL and PYTHON)** architecture.
* Developed entire backend modules using **Python** on **Django Web Framework**.
* Designed and developed data management system using **MySQL and Django**.
* Developed Python scripts using **multithreading module.**
* Used **NLTK** and Stanford **NLP** to process text data and created offline intelligence.
* Responsible for setting up **Python REST API** framework using DJANGO.
* Developed responsive UI using **HTML5/CSS3,** JavaScript**, AngularJS** and Bootstrap.
* Developed data format file that is required by the Model to perform analytics using **Spark** SQL and Hive query language.
* Create custom **VB scripts** in repackaging applications as needed. **NLP** File Prep Settlement-Prepare files for review for Settlement.
* Analyzed the **sql** scripts and designed it by using **Spark** SQL for faster performance.
* Responsible for writing test plans and executing tests via **automation and manually.**
* Developed database layer including Tables and Stored procedures in **MYSQL.**
* Installed and used **CaffeDeep Learning Framework**
* Worked on different data formats such as **JSON**, **XML** and performed machine learning algorithms in **R.**
* Used **Pandas**, **NumPy, seaborn, SciPy, Matplotlib, Scikit-learn, NLTK** in **Python** for developing various **machine learning** algorithms and utilized **machine learning** algorithms such as linear regression.
* Scraping, **Machine Learning, Python** programming, **SQL, GIT, Unix Commands, NoSQL, MongoDB, Hadoop**
* Implemented **MVC** architecture application using **spring** and created **Lambda** function in **AWS** using **Spring Framework**.
* Used **Amazon Cloud EC2 along with Amazon SQS** to upload and retrieve project history.
* Developed a Front-End GUI as stand-alone Python application.
* Created the **Automation scripts using Python** for testing applications as well as the integration of these application (API's &UI's) based on REST calls using Python, phrasing the JSON responses.
* Used **JSON** based and **RESTful API** for information extraction.
* Create "**test modules**" in python, internal processes for step-by-step **system testing**.
* Responsible for production implementation and **system maintenance.**
* Management of information in Cloud based VOIP solution in terms of basic usability/load/performance/audio quality.
* Demonstrate expertise in implementing overall **CRM** with Call Center, Five9, Oracle CCAand Voice over IP.

Environment: Spark, Python 2.7, Django 1.4, MySQL, Machine learning, Amazon EC2, Amazon SQS, S3,

Windows, Linux, HTML, CSS, AngularJS, JQuery, JavaScript, Apache.

**Client: Save Mart (Supermarkets), Modesto, CA. Mar 2016 - May 2017**

**Role: Python Developer**

**Description:** Save Mart Supermarkets (also known as The Save Mart Companies) is an American grocery store operator. It owns and operates stores under the names of Save Mart, S-Mart Foods, Lucky and Food Maxx. The stores are located in northern California and northern Nevada.

**Responsibilities:**

* Analyzed system requirements specifications and in client interaction during requirements specifications.
* Implemented Model View Control architecture in developing web applications using**Django Framework.**
* Develop the Perl and Shell scripts to automate the finance billing file.
* Designed the front end of the application using **Python Scripting, HTML, CSS, AJAX, JSON and jQuery**.
* Experience working with **AWS** for Storage & content delivery and Application deployment services.
* Implemented various **Spark** Actions and Transformations by creating RDD's in HDFS
* Strong experience in writing Perl scripts covering data feed handling, implementing business logic, communicating with web-services
* Used several **Machine learning** libraries like **wxPython**, **numPY** and **matPlotLib**.
* Developed rich user interface using **CSS3, HTML5, JavaScript, AngularJS, JQuery** and **JSON**.
* Created UI using **JavaScript and HTML5/CSS.**
* Designed and developed **MySQL Stored Procedures** and **Shell Scripts** for Data Import/Export and Conversions.
* Used **Git** and **Jira** for code submissions and review process.
* Build all database mapping classes using **Django** models and **Cassandra**.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using **Django, OracleDB, PostgreSQL, and VMWare API calls.**
* Developed applications especially in **LINUX** environment and familiar with all of its commands.
* Designed the **NLP** architecture to increase speed for big data.
* Worked on improving code for **NLP** for understanding solution.
* Added a united framework for entity detection in **NLP** for auto **framework**.
* Writing MapReduce job with Hadoop and MapReduce Java API. Analyzing bigdata by transforming, normalization and joining data.
* Implemented **AWS IAM** for managing the credentials of applications that runs on EC2 instances.
* Using Hive to be exploring and analyzing **Bigdata** to gain initial inside of data.
* Designed and Developed automation scripts using SeleniumWebDriver**.**
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.
* Implemented **AWS** solutions using **E2C, S3, RDS, EBS**, Elastic Load Balancer, Auto-scaling groups.
* Resolved ongoing problems and accurately documented progress of a project.

**Environment:** Python/Scripting, Django, JavaScript, HTML5, XHTML, JQuery, JSON, XML, CSS3, MySQL, AngularJS, Cassandra, Git, LINUX, AWS, E2C, S3, RDS, EBS.

**Client: Intersil Corporation, Milpitas, CA Nov 2014 - Feb 2016**

**Role: Python Developer**

**Description:**Intersil is an American semiconductor company headquartered in Milpitas, California. As of February 2017, Intersil is a subsidiary of Renesas. The original Intersil was formed in August 1999 through the acquisition of the semiconductor business of Harris Corporation.

**Responsibilities:**

* Implemented different python libraries **NumPy**, **SciPy**, **PyTables**, **matplotlib**, python-twitter, Pandas data frame and urllib2 in various tasks
* Responsible for using **Django**, a high level **Python Web Framework** to build powerful APIs and Web Applications for desktop and mobile users using Python, HTML5, CSS3, JavaScript, Git, Command Line, **Redis** and Graphic Design Software’s
* Developed programs to automate the testing of **RAID** controller firmware and utilities using Python, Java, Bash script, Windows command line.
* Deployed mircoservices2, including provisioning AWS environments using Ansible Playbooks.
* Followed Agile Methodologies and **SCRUM** Process.
* Used ETL/SSIS and T-SQL stored procedures to transfer data from OLTP databases to staging area and finally transfer into data marts and performed action in XML.
* Used Pentaho Data Integration Designer to create ETL transformations.
* Developed Complex transformations, **Mapplets** using **Informatica** to **Extract**, **Transform** and load (ETL) data into Data marts, Enterprise Data warehouse (EDW) and Operational data store (ODS).
* Worked on cross browser compilation and responsive web design using **HTML5**, **CSS3** and **Bootstrap**
* Wrote Unit test cases for unit, integration, and functional tests, run automatically by Hudson/Jenkins in the builds triggered by each push to **Git**
* Migrated the **Django** database from **SQLite** to **MySQL** to **PostgreSQL** with complete data integrity
* Worked on AJAX framework to transform datasets and data tables into **HTTP**-**Serializable** JSON strings
* Responsible for building scalable distributed data solutions using Hadoop
* Responsible for turning raw data into presentable, flexible and responsive web applications
* Using **mongo DB** to take care of the back-end calls with a lightning fast speed
* Installed and benchmarked **Hadoop**/**HBase** clusters for internal use
* Used Pandas library for statistical Analysis
* Wrote shell scripts for rolling day-to-day processes and it is automated
* Worked on Python **Open Stack API’s**
* Worked on JavaScript MVC frameworks like **AngularJS**, **OpenStack**
* Used **Django** Rest framework for creating REST APIs and interacted with **Jira** using **Jira** Rest API
* Created entire applications using Python, **Django**, **MySQL** and Linux
* Used other packages such as **Beautiful soup** for data parsing
* Used Python modules such as requests, **urllib**, urllib2 for web crawling
* Worked on writing and reading data from **csv** and excel file formats in python.
* Built **docker** containers to sandbox python **WSGI** Apps.
* Used Apache CouchDB (NoSQL) in AWS Linux instance in parallel to RDS MySQL to store and analyze job market info.
* Used ETL (SSIS) to develop jobs for extracting, cleaning, transforming and loading data into data warehouse. Wrote PL/SQL stored procedures& triggers, cursors for implementing business rules and transformations.
* Held meetings with client and worked on the entire project with limited help from the client
* Performed testing on the applications using Robot Framework
* Exported/Imported data between different data sources using SQL Server Management Studio
* Worked on python scripts to parse **XML** documents and load the data in database

**Environment:**Python 2.7/3.0, Django, XML, Hadoop, AWS, ETL, HDFS, HBase, mongo DB, Agile, SCRUM, PyUnit, Apache, CSS, MySQL, DHTML, HTML, JavaScript, AngularJS, Shell Scripts, Git, Linux, Unix and Windows.

**Client: FBI Wind Down, Inc., St. Louis, Missouri Mar 2013 - Oct 2014**

**Role: Python Web Developer**

**Description:**The Company began in 1911 as International Shoe Company with the merger of Roberts, Johnson & Rand Shoe Company and Peters Shoe Company. In 1966 the company changed its name to Interco as the result of diversification, and once the company exited the shoe business, adopted the name Furniture Brands International.

**Responsibilities:**

* Created a highly-scalable, distributed system for running Web applications and **Web** **services** by working with architects and developers and ensuring the implementation of Restful Web services and **API** **design**.
  + Developed views and templates with Python and **Django's** view controller and **templating** language to create a user-friendly website interface.
  + Used data types like dictionaries, **tuples** and object-oriented concepts-based inheritance features for making complex algorithms of networks.
  + Integrated Hibernate **ORM** with Spring-Hibernate framework to facilitate DML and DQL queries and represent object-database mapping.
  + Creating restful web services for Catalog and Pricing with **Django** **MVT**, Jersey, **MySQL**, and **MongoDB**.
  + Installed and configured **MySQL** on **LINUX** and **Windows** **Environment**.
  + Managed datasets using data frames and **MySQL**, queried MYSQL database queries from python using **Python**-**MySQL** connector **MySQL dB** package to retrieve information.
  + Developed a fully automated continuous integration system using **Git**, Jenkins, **MySQL** and custom tools developed in **Python** and **Bash**.
  + Used Pandas **API** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
  + Carried out various mathematical operations for calculation purpose using **Python** libraries **numpy**.
  + Successfully migrated the code from **SQLite** to **MySQL** to **PostgreSQL** with complete data integrity using **Django** and experience in **Object** **Oriented** **Design**.
  + 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.
  + Used **jQuery** to make the **HTML**, **DHTML** and **CSS** code interact with the JavaScript functions to add dynamism to the web pages at the client side.
  + Involved in designing mobile search application system requirements and coded back-end and front-end in Python.

**Environment:**Python 2.7, Django, HTML, CSS, MySQL JavaScript, Jquery, wxPython, numpy, matPlotLib, MySQL, PyQT, MVW, DOM, Shell Scripting, JSON, REST, Apache Web Server, Django, SQL, LINUX, Windows, and python libraries.

**Client: Computer Systems Network Limited, INDIA. Oct 2011 - Feb 2013**

**Role: Jr. Python Developer**

**Description:**Computer Network Systems (CNS) is accredited with SEI CMMi Level 3 standards for its Development and Maintenance. I was part of the team responsible for providing Software Development and Maintenance for CNS clients.

**Responsibilities:**

* Created **Python** scripts for data access and analysis (Scripts, Data Feeds, XLS, FIXML) to aid in process and system monitoring, and reporting.
  + Closely analyzed the database tables using sequel pro tool of **MySQL** to resolve integrity issues.
  + Responsible for gathering requirements, system analysis, design, development, testing and deployment.
  + Worked on object-oriented programming (OOP) concepts using **Python** and **Linux**.
  + Generated property list for every application dynamically using Python.
  + Improved code reuse and performance by making effective use of various design patterns.
  + Developed **JavaScript** **API** used by clients to integrate the application with other modules.
  + Developed page layouts, Navigations and presented designs and concepts to the clients and the management review.
  + Designed and developed the UI of the website using **HTML**, **AJAX**, **CSS**, **JQuery** and JavaScript.
  + Debugging and testing of the applications & fine-tuning performance. Provided maintenance support in production environment.

**Environment*:***Java, Python, J2EE, MySQL, Linux, AJAX, HTML, CSS, UNIX shell, JavaScript,

**Client: Exide Life Insurance- Bengaluru, Karnataka Oct 2009 - Sep 2011**

**Role: SQL / Web Developer**

**Description:**Exide Life Insurance Company Limited, is a 100% Indian owned life insurance Company, owned by the Exide Industries. Exide Life Insurance distributes its products through multi-channels.

**Responsibilities:**

* Setup new **SQL Server** instances.
* Involved in the life-cycle of the project, i.e., requirements **gathering**, **design**, **development**, **testing** and **maintenance** of the database.
* Performed query optimization and tuning, debugging and maintenance of stored procedures.
* Developed **SQL Server objects** such as **tables**, **materialized views**, **clustered** and **non**-**clustered indexes**, **stored procedures**, **cursors**, **triggers** and **constraints**.
* Used System tables and stored procedures to retrieve metadata.
* Provided database security by using role base authorization on accessing data.
* Performed troubleshooting operations on the **production servers**.
* Monitored SQL Server jobs, and developed queries to perform database operations.
* Administered the database using **SQLServer Enterprise Manager**.

**Environment:** HTML, CSS, jQuery, JavaScript, MySQL, Linux.