**Venkat**

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**732-289-2835**

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| **PROFESSIONAL SUMMARY:** |

* **8 years** of experience IT Industry with proficiency in **Design & Development of Python, Java/J2EE, Django, flask project**.
* Experience in working with number of public and private cloud platforms like **Amazon Web Services (AWS), Microsoft Azure, Rackspace Cloud and Openstack**.
* Experience in **Infrastructure as service (IaaS), Platform as service (PaaS), Software as a service (SaaS)**& end user computing.
* Well versed with design and development of presentation layer for web applications using technologies like **HTML, CSS, and JavaScript, Bootstrap**.
* Good experience in developing web applications implementing Model View Control architecture using **Django, Flask, Pyramid and Zope Python web application frameworks**.
* Experienced in **HTML/HTML5, DHTML, CSS/CSS3, JavaScript, JQuery, Angular.JS, AJAX, XML and JSON**.
* Experienced in working with various **Python Integrated Development Environments** like **Net Beans, PyCharm, PyScripter, Spyder, PyStudio, PyDev and Sublime Text.**
* Strong expertise in development of web-based applications using Python**, Django, Flask, Dojo, HTML, XML, Angular.JS, CSS, DHTML, JavaScript, JSON and Jquery**.
* Worked on several **python**packages like **NumPy, matplotlib, Beautiful Soup, Pickle, PySide, SciPy, wxPython, PyTables** etc.
* Experienced in working on Application Servers like **WebSphere, WebLogic, Tomcat, Web Servers like Apache server, NGINX** and Integrated Development Environments like **PyCharm, Eclipse, MyEclipse, JDeveloper and RAD**.
* Experienced in WAMP **(Windows, Apache, MYSQL, and Python/PHP)** and **LAMP (Linux, Apache, MySQL, and Python/PHP) Architecture**.
* Having experienced in **Agile Methodologies, Scrum stories** and **sprints** experience in a **Python**based environment, along with **data analytics, data wrangling and Excel data extracts**.
* Sound experience in working with **python editors** like **PyCharm, PyScripter, PyStudio, PyDev, Wing IDE and Spyder**.
* Experience in developing **web services (WSDL, SOAP and REST)** and consuming web services with **python** programming language.
* Experienced in working with server side technologies including **databases, restful API and MVC design patterns**.
* Good experience in **Python, Django, Shell Scripting, SQL Server, Unix and Linux and Open stack**.
* Experience with **Requests, Pysftp, Gnupg, ReportLab, Numpy, Scipy, Matplotlib, HTTPLib2, Urllib2, Beautiful Soup and Pandas python** libraries during **development lifecycle**.
* Knowledge about setting up **Python REST API Frame** work using **Django**.
* Having good knowledge in using **NoSQL databases** like **Apache Cassandra (1.2, 2.0 and 2.1) and MongoDB (2.6, 2.4), Orient DB**.
* Expertise in working with server side technologies including **databases, Restful API and MVC design patterns**.
* Having good exposure over working with deployment of **Python** and **Java projects** using **cloud architecture**.
* Experienced in web applications development using **Django/Python, Flask/Python, and Node.js, Angular.js, DOJO, Jquery** while using **HTML/CSS/JS** for server-side rendered applications.
* Experience in using various version control systems like **CVS, Git, GitHub and Amazon EC2** and deployment using **Heroku**.
* Worked in **Cloud** based **NMS application** which monitors the **CPU/Memory parameters** of **Virtual machines**.
* Experience in project deployment using **Heroku/Jenkins** and using **web services** like **Amazon Web Services (AWS) EC2 and AWS S3**.
* Proficient in writing **SQL Queries, Stored procedures, functions, packages, tables, views, triggers** using relational databases like **Oracle, DB2 and MySQL**.
* Extensive experience with **Amazon Web Services (AWS), Openstack, Docker Puppet, Chef, Ansible, AWS CloudFormation, AWS CloudFront**.
* Experience in handling database issues and connections with **SQL and NoSQL databases** like **MongoDB (2.6, 2.4)** by installing and configuring various packages in python**(Teradata, MySQL dB, Pyodbc, MySQL connector, Pymongo and SQLAlchemy)**.
* Good knowledge in working with **Web/application server**- **Apache Tomcat (6.0, 7.0, 8.0), Tornado, Cherrypy, Chaussette, Rocket**.
* Experience with **Requests, Pysftp, Gnupg, ReportLab, Numpy, Scipy, Matplotlib, HTTPLib2, Urllib2, Beautiful Soup and Pandas python** libraries during development lifecycle.
* Excellent experience with **Python**development under **Linux OS (Debian, Ubuntu, SUSE Linux, RedHat Linux, Fedora)**.
* Experience in working with **Python ORM Libraries** including **Django ORM**.
* Have good knowledge on Project management tools **JIRA, Redmine and Bugzilla**.
* Hands on experience in working with various **Version Control Systems,** mostly **GIT, CVS and SVN**.
* Experience in working with multiple Servers like **Apache Tomcat, IBM Web Sphere, Web Logic and Jboss**.
* Having experienced in **Agile Methodologies, Scrum stories and sprints** experience in a **Python** based environment, along with **data analytics, data wrangling and Excel data extracts**.
* Experience in using various version control systems like **CVS, Git, GitHub and Amazon EC2** and deployment using **Heroku**.
* Experience in **Test Driven Development** and **Behavior Driven Development methodologies** for consulting firms and enterprise projects.
* Experience in writing **Sub Queries, Stored Procedures, Triggers, Cursors, and Functions** on **MySQL and PostgreSQL database**.
* Expertise in working with **GUI frameworks-PyJamas, Jytho, guidata, PyGUI, PyQtPyWebkitGtk**.
* Experienced with **Elasticsearch, Logstash and Kibana (ELK)**.
* Having good knowledge in using **NoSQL databases,** various version control systems like **Git (GitHub), SVN, CVS**.
* Sound knowledge in **Spring, Hibernate, RDBMS, Web, XML, Ant/Maven, HTML, Python, Shell Scripting**.
* Experience in writing reusable and in test driven development using **Unit Testing** and **Selenium**.
* Experienced in developing **API services** in **Python/Tornado, Node.JS** while leveraging **AMQP and RabbitMQ** for distributed architectures.
* Experienced in working on **Celery Task queue** and service broker using **RabbitMQ**.

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| **EDUCATION** |

**Bachelor of Technology in Electronics & Comm Engg from Crescent University**

**Masters in Information Technology From Harrisburg University**

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| **SK**I**LLS** |

**Operating Systems :** Windows, MAC OS, Unix/Linux

**Languages :** Python, C++,Java, J2EE

**Python Libraries :** Numpy, Matplotlib, NLTK, Statsmodels, Scikit-learn/sklearn, SOAP, Scipy

**Python Frameworks :** Pandas, Flask, Django, Docker

**Python IDE :**Sublime Text 3, Eclipse, Jupyter Notebook, VIM, Pycharm

**NLP used for Python :**NLTK, OpenNLP, StanfordNLP (NER, POSTag, Tokenization)

**Databases :** RDBMS (Oracle, SQL Server, MySQL), No SQL (MongoDb), HDFS (Hadoop)

**Web Technologies :** CSS, JavaScript, XML, AJAX, JQuery, Bootstrap, AWS, RESTFul Web Services

**Other Tools :** Putty, SQL developer, Toad, JIRA, Matlab, R

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| **PROFESSIONAL EXPERIENCE:** |

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| **Anthem, Inc. – NYC,NC *Jun 2017 – Present***  ***Python Developer*** |

Anthem, Inc. is an American health insurance company founded in the 1940s, prior to 2014 known as WellPoint, Inc. It is the largest for-profit managed health care company in the Blue Cross and Blue Shield Association. It was formed when Anthem Insurance Company acquired WellPoint Health Networks, Inc., with the combined company adopting the name WellPoint, Inc.

**Responsibilities:**

* Create, activate and program in **Anaconda environment**.
* Worked on predictive analytics use-cases using **R language**.
* Use **Python** unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in-line with **Agile Software Development methodologies**.
* Added licensing feature for 3 products **CVU’S, CCLEAR, CSTOR** from scratch by going through most modules of code runs at backend and created **html pages** to view the **EULA (End User License Agreement)**.
* Developed micro services **API'S** for an individual module and exposed the results in **JSON** format using **Bottle framework**.
* Involved in development of **testing frameworks**, used **selenium web driver** for Automation.
* Worked with **Docker Container**, have setup an environment and used accordingly.
* Wrote **Python code embedded** with **JSON and XML** to produce **HTTP GET and POST** requests for parsing **HTML data** from **website**.
* Used **JIRA** for issue tracking and **bug tracking** for each individual sprint and used confluence to create design documents.
* Installed **Hadoop, Map Reduce, HDFS, AWS** and developed multiple **MapReduce** jobs in **PIG and Hive** for data cleaning and pre-processing.
* Manage datasets using **Panda data frames** and **MySQL, queried MYSQL database queries** from **python** using **Python-MySQL** connector and **MySQL dB** package to retrieve information.
* Involved in the **Web/Application development** using **Python 3.5, HTML5, CSS3, AJAX, JSON and Jquery**.
* Develop and tested many features for dashboard using **Python, Java, Bootstrap, CSS, JavaScript and Jquery**.
* Generate**Python Django** forms to record data of online users and used **PyTest** for writing test cases.
* Implemented and modified various **SQL queries** and Functions, Cursors and Triggers as per the client requirements.
* Clean data and processed third party spending data into maneuverable deliverables within specific format with **Excel macros** and **python** libraries such as **NumPy, SQLAlchemy and matplotlib**.
* Used **Pandas** as **API** to put the data as time series and tabular format for manipulation and retrieval of data.
* Helped with the migration from the old server to **Jira database (Matching Fields)** with **Python scripts** for transferring and verifying the information.
* Analyze Format data using **Machine Learning algorithm** by **Python Scikit-Learn**.
* Experience in **python, Jupyter, Scientific computing stack (numpy, scipy, pandasand matplotlib)**.
* Perform 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.
* Write **Python scripts** to parse **JSON** documents and load the data in database.
* Generating various capacity planning reports (graphical) using **Python** packages like **Numpy, matplotlib**.
* Analyzing various logs that are been generating and predicting/forecasting next occurrence of event with various **Python** libraries.
* Developed single page application by using **Angular JS backed** by **MongoDB and NodeJS**.
* Design and maintain databases using **Python** and developed **Python** based **API (RESTful Web Service)** using **Flask, SQL Alchemy and PostgreSQL**.
* Manage code versioning with **GitHub, Bit Bucket** and deployment to staging and production servers and implement **MVC architecture** in developing the web application with the help of **Django framework**.
* Use Celery as task queue and **RabbitMQ, Redis** as messaging broker to execute **asynchronous tasks**.
* Design and manage **API system** deployment using fast **http server** and **Amazon AWS architecture**.
* Develop remote integration with third party platforms by using **RESTful web services** and Successful implementation of **Apache Spark** and **Spark Streaming applications** for large scale data.
* Built various graphs for business decision making using **Pythonmat plotlib library**.
* Involved in development of Web Services using **SOAP** for sending and getting data from the external interface in the **XML format**.
* Export **Test case Scripts** and modified the **selenium scripts** and executed in **Selenium environment**.
* Developed entire frontend and backend modules using **Python** on **Django Web Framework**.
* Scraping website using **Python Beautiful Soup,** and then parsed it with **XML**.
* Outputting the parsed data as **JSON/BSON** and stored into **MongoDB.**
* Used **NLTK and StanfordNLP** to process text data and created offline intelligence.
* Querying data from **MongoDB** and use them as input for the machine learning models.
* Using **AWS** for application deployment and configuration.
* Wrote **UNIX shell scripting** for automation.
* Developed views and templates with **Django** view controller and template Language to create a user-friendly website interface.
* Used **JavaScript** and **JSON** to update a portion of a webpage.
* Develop consumer-based features using **Django, HTML** and **Test-Driven Development (TDD)**.
* Increase the speed of pre-existing search indexes through **Django ORM optimizations**.
* Develop module to build **Django ORM** queries that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.

**Environment:** Python, Django, HTML5/CSS, PostgreSQL, MS SQL Server 2013, MySQL, JavaScript, Jupyter Notebook, VIM, Pycharm, Shell Scripting, Angular.JS, JIRA.

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| ***Capital One– Dallas, TX Aug 2015 – May 2017***  ***Python Developer*** |

Capital One in Plano Texas second main office handling data source and their partner information in US based in Texas(Plano) and its principal work on data analytics and development. Work has been assigned on multiple project with this company based on experience and client requirement to fulfill in given time. As most of company moving toward cloud technology, my work is mostly migration team to automate system from On-perm(EDE) to SFG (AWS Cloud) with latest technology. Also, part of internal web portal development using python powerful tool like pandas, Djanog and Flask and Machine learning.

**Responsibilities:**

**Responsibilities**

* Develop strategic partnerships with the business unit to develop a solid knowledge base of the business line, including the business plan, products, and processes.
* Create **Use-Case diagrams** and State diagrams using **MS Visio**.
* Create entire application using **Python, Django, MySQL,and Linux**.
* Develop tools using **Python, Shell scripting, XML** to automate some of the menial tasks.
* Extensively use **Python's** multiple data science packages like **Pandas, NumPy, matplotlib, Seaborn, SciPy, Scikit-learn and NLTK**.
* Work on data pre-processing and cleaning the data to perform feature engineering and performed data imputation techniques for the missing values in the dataset using **Python**.
* Implement **machine learning** model **(logistic regression, XGboost, SVM)** with **Python Scikit- learn**.
* Work on different data formats such as **JSON, XML** and performed **machine learning algorithms** in **Python**.
* Create and publish multiple dashboards and reports using **Tableau server**.
* Fine-tune the **algorithm parameter** with manual tuning and automated tuning such as **Bayesian Optimization**.
* Work on **Text Analytics, Naive Bayes, Sentiment analysis, creating word clouds** and retrieving data from Twitter and other **social networking platforms**.
* Perform **Multinomial Logistic Regression, Random forest, Decision Tree, SVM** to classify package is going to deliver on time for the new route.
* Work on machine learning on large size data using **Spark and MapReduce**.
* Perform data analysis by using **Hive** to retrieve the data from **Hadoop cluster, SQL** to retrieve data from **Oracle database**.
* Create **Data Quality Scripts** using **SQL** to validate successful data load and quality of the data.
* Create various types of data visualizations using **Python** and **Tableau**.
* Extract data from **HDFS** and prepared data for exploratory analysis using **datamunging**.
* Interfacing with supervisors, artists, systems administrators, and production to ensure production deadlines are met.
* Designed and managed **API systemdeployment** using fast **HTTP server** and **Amazon AWS architecture**.
* Develop entire frontend and backend modules using **Python** on **Django Web Framework**.
* Use **Python** and **Django** creating **graphics, XML processing, data exchange** and business logic implementation.
* Utilize **PyUnit,** the **Python** unit test **framework**, for all **Python** applications.
* Design and maintain databases using **Python** and developed **Python**-based **API (RESTful Web Service)** using **Flask, SQL Alchemy, and Postgre SQL**.
* Use **Amazon EC2** command line interface along with **Bash/Python** to automate repetitive work.
* Develop **GUI** using **webapp2** for dynamically displaying the test block documentation and other features of **python** code using a **web browser**.
* Design and develop components using **Python** with **Django framework**.
* Implement code in **python** to retrieve and manipulate data.
* Involved in writing **SQL** queries **implementing functions, triggers, cursors, object types, sequences, indexes** etc.
* Involved in development of the enterprise social network application using **Python, Twisted, and Cassandra**.
* Responsible for setting up **Python REST API framework** and **spring framework** using **Django**.
* Write **Python OO Design code** for **manufacturing quality, monitoring, logging**, and **debugging code optimization**.
* Involved in Installation and setting up **Python/Linux** test beds.
* Worked with **JSON** based **REST Web services**.
* Worked in **Python** on a **SQL database**.
* Creating unit test/regression **test framework** for working/new code.
* Use Subversion version control tool to coordinate team-development.
* Deliver presentations on Project Status and Current Open Issues Report to Users, Stakeholders, and other involved groups.
* Conduct weekly meetings with the development and testing team to relay any changed requirements and updates on the development and testing.
* Play a key role in the **planning, testing, and implementing system** enhancements and conversions.

**Environment:**Python 3.x, Django, Shell Scripting, AWS, Pandas, PyUnit, OOAD, MS Visio, HTTP, JSON, PHP, HTML5, CSS3, AJAX, Java, JavaScript, Bootstrap, Apache Web Server, MYSQL, GitHub, LINUX.

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| ***Servicelink-Moon Township, PA Aug 2013 – May 2015***  ***Python Developer*** |

**Responsibilities:**

* Involved in all the stages of **software development lifecycle** like design, development,and implementation testing.
* Used **Django Framework** in developing web applications to implement the model view control architecture.
* Developed views and templates with **Python** and **Django's** view controller and **templating language** to create a user-friendly **website interface**.
* **Python's Unit Test library** was used for testing code.
* Developed **UI** using **CSS, HTML, JavaScript, jQuery, JSON and AJAX**.
* Used **MySQL** as backend database and **MySQL dB** of **python** as database connector to interact with **MySQL server**.
* Build **SQL queries** for performing various **CRUD** operations like create, update, read and delete.
* **Python's Unit Test** library was used for testing many programs on **Python** and other codes.
* Applied **Logistic Regression, Random Forests, Gradient Boosting** and **kNN** in **Python** in modeling.
* To build and populate DB and to ensure the standards, the team of QA also collaborated.
* Design highly available, cost effective and fault tolerant systems using multiple **EC2 instances, Auto Scaling, Elastic Load Balancer and AMIs**.
* Define **AWS Security Groups** which acted as virtual firewalls that controlled the traffic allowed to reach one or more **AWS EC2** instances.
* Experience involving configuring **S3 versioning** and lifecycle policies to and backup files.
* Design roles and groups for users and resources using **AWS Identity Access Management (IAM)** and managed network security using Security Groups, and **IAM**.
* Wrote **Python scripts** to parse **JSON** documents and load the data in database.
* Used **AJAX** to update small portions of the web page instead of reloading the entire web page.
* Responsible for setting up **Python REST API framework** using **Django**.
* Features for dashboard were developed and tested using **CSS, JavaScript, Django, and Bootstrap**.
* Followed **Agile methodology** and involved in daily **SCRUM meetings, sprint planning, showcases and retrospective** and used **JIRA** as a tracking tool for the **sprints**.
* Worked as part of data validation team to make sure all the requirements are covered.
* Created **complex mappings** using **Unconnected Lookup, Sorter, Aggregator, newly changed dynamic**.
* Lookup and **Router** transformations for populating target table in efficient manner.
* Created database maintenance plans and deleting of history data using **SSIS packages**.
* Deployed **SSIS packages** and Reports to **Production Servers**.
* Advanced extensible reporting skills using **SQL Server 2008 Reporting Services (SSRS)**.
* Developed a High-level dashboard using **SSRS 2008**.
* Used **GIT** for the version control.
* Involved in analysis and design of the application features.
* Responsible debugging and troubleshooting programming related issues.
* Ensured the best possible performance, quality, and responsiveness of the applications.

**Environment:**Python 2.7, Django 1.9, MySQL, Informatica Power Center 9.1.0(ETL), DB2, , Linux, Shell Scripting, Pl/Sql, Aws, HTML5, JBoss(middleware), CSS3, Bootstrap, PostgreSQL, Pandas, Seaborn, Matplotlib, JavaScript, jQuery, JSON, AJAX, matPlotLib, , JIRA, GIT.

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| ***Humana, Pune, India May 2011 – May 2013***  ***Python Developer*** |

**Responsibilities:** 

* Wrote **Python routines** to log into the websites and fetch data for selected options.
* Implemented code in Python to **retrieve and manipulate data.**
* Used Python modules such as requests, urllib, and urllib2 for **web crawling.**
* Used other packages such as Beautiful soup for **data parsing**.
* Worked on writing and as well as read data from CSV and excel file formats using Python.
* Web-services backend development using Python **(CherryPy, Django, SQL Alchemy).**
* Worked on resulting reports of the application and **Tableau reports.**
* Participated in developing the company's **internal framework** on Python. This framework became a basement for the quick service's development.
* Worked on **HTML5, CSS3, JavaScript, AngularJS, Node.JS, Git, REST API, MongoDB**.
* Design and setting up of the environment of **MongoDB** with shards and replica sets (Dev/Test and productions).
* Designed and developed components using **Python with Django framework.**
* Private VPN using **Ubuntu, Python, Django, CherryPy, Bootstrap, jQuery.**
* Created a Python-based GUI application for Freight Tracking and processing.
* Experience in designing and developing applications in **Spark using Scala.**
* Wrote scripts in Python for **extracting data from HTML file**.
* Used Python and Django creating graphics, XML processing of documents, data exchange and business logic implementation between servers.
* Developed rich user interface using **CSS, HTML, JavaScript, and jQuery.**
* .Participated in the complete **SDLC process**.
* Worked on automating the repetitive tasks using Ansible.
* Extracting acting data from the database using **SAS/Access, SAS SQL** procedures and create SAS data sets.
* Created and modified **PL/SQL** scripts for data conversions.
* Developed and maintained various automated web tools for reducing manual effort and increasing efficiency of the Global Shipping Team.
* Created database using **MySQL**, wrote several queries to extract data from the database.
* Communicated effectively with the external vendors to resolve queries.
* Held meetings with client and worked all alone for the entire project with limited help from the client.

**Environment:** Python, Django, MySQL, Windows, Linux, HTML, CSS, jQuery, JavaScript, Apache, Linux, Quality Centre, Ansible, PL/SQL.

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| ***Sanofi-Aventis- Chennai, India Oct 2010 – Apr 2011***  ***Jr. Data Analyst*** |

***Responsibilities***

* Developed and implemented **predictive models** using **Natural Language Processing Techniques** and **machine learning algorithms** such as **linear regression, classification, multivariate regression, Naive Bayes, Random Forests, K-means clustering, KNN, PCA and regularization for data analysis**.
* Designed and developed **Natural Language Processing models** for **sentiment analysis**.
* Applied **clustering algorithms** i.e. **Hierarchical, K-means** with help of **Sickit and SciPy**.
* Developed visualizations and dashboards using **plot, Tableau**.
* Worked on development of **data warehouse, Data Lake and ETL systems** using relational and non relational tools like **SQL, No SQL**.
* Built and analyzed datasets using **R, SAS, MATLAB and Python** (in decreasing order of usage).
* Participated in all phases of **datamining; data collection, data cleaning, developing models, validation, visualization and performed Gap analysis**.
* **Data Manipulation and Aggregation from** different source using **Nexus, Toad, BusinessObjects, PowerBI and SmartView**.
* Implemented **Agile Methodology** for building an internal application.
* Good knowledge of **Hadoop Architecture** and various components such as **HDFS, Job Tracker, Task Tracker, Name Node, Data Node, Secondary Name Node, and MapReduce concepts**.
* As Architect delivered various complex **OLAP databases/cubes, scorecards, dashboards and reports**.
* Programmed a utility in **Python** that used **multiple packages** (**SciPy, NumPy, pandas**).
* Implemented Classification using **supervised algorithms** like **Logistic Regression, Decision trees, KNN, Naive Bayes**.
* Used **Teradata15 utilities** such as **Fast Export, MLOAD** for handling various tasks **data migration/ETL from OLTP Source Systems** to **OLAP Target Systems**
* Maintenance in the **testing** team for **System testing/Integration/UAT**.
* Involved in preparation & design of technical documents like **Bus Matrix Document, PPDM Model, and LDM & PDM**.
* Understanding the client business problems and analyzing the data by using appropriate **Statistical models** to generate insights.

***Environment***: R 3.0, Erwin 9.5, Tableau 8.0, MDM, QlikView, ML Lib, PL/SQL, HDFS, Teradata 14.1, JSON, HADOOP (HDFS), MapReduce, PIG, Spark, R Studio, MAHOUT, JAVA, HIVE, AWS.