**amazonwebservicesmysql57administrationMatt Mottola**

**Python Developer**

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**PROFESSIONAL SUMMARY:**

* Experience in Analysis, Design, Development, Testing, Customization, Bug fixes, Enhancement, Support and Implementation of various web, stand-alone, client-server enterprise applications using Python, Django and SQL.
* Experience in implementing with server-side technologies with restful API with Django framework.
* Good experience of software development in Python (libraries used: Beautiful Soup, numpy, SciPy, matplotlib, Pandas DataFrame, SQLAlchemy, pytest, nltk, urllib2, MySQL Connector, PyMySQL for database connectivity).
* Expertise in using different Databases like MySQL, Oracle, PostgreSQL, SQL Server in writing Sub Queries, Stored Procedures and Functions on MySQL and PL/SQL database.
* Experienced with full software development life-cycle, architecting scalable platforms, object-oriented programming and database design.
* Experienced in a Python based environment, along with data analytics and Excel data extracts.
* Experience in developing web applications and coding with an analytical programming using Python, Django, Flask, PHP, MySQL, HTML, CSS, Bootstrap, JavaScript and jQuery.
* Actively involved in each phase of software Development life cycle (SDLC) and experience in Agile Software Methodology.
* Experience in analyzing data using HiveQL programs
* Experience in Amazon Web Services like EMR, EC2, RDS and S3.
* Experienced in Maintaining the Hadoop cluster on AWS EMR.
* Experienced in importing data from HDFS through Hive into Spark RDD, Performed analytics in Tableau.
* Knowledge in Text Analytics, developing different Statistical Machine Learning, Data Mining solutions to various business problems and generating data visualizations using R, Python.
* Experience with R, Python and Business Intelligence Tools to conduct the analysis.
* Experienced in RDBMS including Stored Procedures, Constraints, Joins, Keys and Indexes using SQL.
* Knowledge in networking concepts: TCP/IP, DHCP, HTTP, FTP.
* Practical experience with working on Google Cloud Platform Storage and SQL instance.
* Hands on experience working in WAMP (Windows, Apache, MySQL, and Python/PHP) and LAMP (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Experience in Version Control systems using Git, GitHub and SVN.
* Excellent analytical and problem-solving skills and ability to work on own besides being a valuable and contributing team player.
* Experienced in Test Driven Development and Unit Testing.
* Quick learner and flexible to work on multiple technologies.
* Experienced in working with different operating systems Windows, Linux and UNIX.
* Excellent experience in Python IDE's such as PyCharm, Atom, Sublime Text, PyScripter.

**EDUCATION**

MS in Computer Science from Fairleigh Dickinson University with GPA 3.73

**TECHNICAL SKILLS:**

**Programming Languages:** C, C++, Java, Python, PL/SQL, HiveQL, Spark SQL, Pig Latin, R

**Web Technologies:** HTML, CSS, JavaScript, jQuery, PHP

**Version Control:** Git, GitHub, SVN

**Databases:** Oracle, SQL Server, Teradata, MySQL, PostgreSQL, DB2, RDBMS, Mongo DB

**IDE’s/Development Tools:** Eclipse, Sublime Text, NetBeans, Notepad++, Visual Studio Code, Atom, PyCharm, Jupyter, Anaconda

**Hadoop Ecosystem:** HDFS, Hive, HBase, Pig, Spark

**Web Server:** LAMP, WAMP

**Cloud Platform:** AWS, GCP

**AWS Services:** EMR, EC2, RDS, S3

**Python Framework:** Django, Flask

**BI Tools:** Tableau

**Modeling Languages:** Unified Modeling Language (UML)

**Operating Systems:** Windows, Linux, UNIX

**PROFESSIONAL EXPERIENCE:**

**FedEx –Memphis, Tennessee June 2017 – Present**

**Data Engineer/Python Developer**

**Responsibilities:**

* Worked with Python Libraries like Beautiful Soup, NumPy, Pandas data frame, Matplotlib, urllib2.
* Involved in developing scripts for performance calculations using Numpy and SQLAlchemy.
* Wrote Python routines to log into the websites and fetch data for selected options.
* Generated Python Django Forms to record data, login, and signup of users.
* Perform extensive statistical computing and data manipulation using Hadoop Ecosystem.
* Delivered automated solutions for science models.
* Designed python scripts to store, retrieve and modify data in MongoDB and MySQL databases.
* Maintained and updated existing automated solutions.
* Worked on different data formats such as JSON, XML and performed machine learning algorithms in Python.
* Developed Python code to gather the data from HBase and designs the solution to implement using PySpark.
* Developed data model, SQL Queries, SQL Query tuning process and Schemas.
* Automated the existing scripts for performance calculations using Numpy.
* Involved in designing database Model, API’s, Views using python to build an interactive web-based solution.
* Wrote PL/SQL Stored Procedures, Functions, and Packages to meet the business requirements.
* Worked on ETL objects that were already in production and successfully modified to improve the performance.
* Wrote Hive queries to load and processing data in Hadoop File system.
* Developed and reviewed custom SQL queries with use of joins clauses (inner, left, right, full) in Tableau desktop to validate and reconcile data.
* Re-write some Hive queries to Spark SQL to reduce the overall batch time.
* Applied Natural Language Processing (NLP) techniques to process the raw text.
* Worked on server-side applications with Django using Python programming.

**Environment:** Python, Django, MySQL, Apache, Hadoop, Hive, Tableau, Spark, HDFS, EC2, S3, SQL\*Plus, Linux.

**JPMorgan Chase – Jersey City, NJ February 2015 – May 2017**

**Data Engineer/Python Developer**

**Responsibilities:**

* Worked on Pandas to import the data, Sort and plot the statistical data.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Different testing methodologies like unit testing, Integration testing, web application testing were performed.
* Used Pandas for Statistical Analysis in the application and Numpy for the advance math functionalities.
* Used python libraries like NumPy and matplotlib.
* Involved in creating Hive tables, loading with data and writing hive queries that will run internally in map reduce way.
* MySQL Procedures and MySQL Connector, PyMySQL were designed and developed for Data Import/Export and Conversions.
* Created Dashboard reports using Tableau once the data analytics is completed and submit to the Business group
* Designed and developed various analytical reports from multiple data sources by blending data on a single worksheet in Tableau Desktop.
* Composed moderate to complex SQL queries to analyze large and complex data sets
* Used ETL for handling of the raw data, organizing and structuring the data.
* Views and Templates were developed with Python and to create a user-friendly website interface Django view controller and template language is used.
* Ensured high quality data collection and maintaining the integrity of the data.
* Involved in Unit testing the SQL Scripts for report development, Tableau reports, Dashboards and handled the performance issues effectively.
* Worked on Big data analytics like Apache Hive, Apache HBase.
* Developed and implemented the user registration and login feature for the application process from scratch by extending Django user model.
* Designed and developed data management system using MySQL.

**Environment:** Python, Django, HTML, Hive, Spark, Apache, Tableau, JavaScript, MySQL, Hadoop.