Python Developer

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Summary

- Dedicated technical professional having over 8+ years of Information Technology experience, committed to maintaining cutting edge technical skills and up-to-date industry knowledge.
- Extensive experience as a Python Developer, a proficient coder in multiple languages and environments including Python, JavaScript, and SQL.
- Hands-on experience in developing ETL pipelines using PySpark on AWS EMR.
- Good experience in developing web applications and implementing Model View Control (MVC) architecture using server-side applications like Django, Flask and Pyramid.
- Expertise in working with different databases like Microsoft SQL Server, Oracle, MySQL, and good knowledge in using NoSQL databases MongoDB.
- Proficient in developing complex SQL queries, Stored Procedures, Functions, Packages along with performing DDL and DML operations on the database.
- Good Work Experience using AWS tools like EMR, EC2, S3 and Lambda.
- Designed, configured, and deployed Amazon Web Services (AWS) for applications utilizing the AWS stack (Including EC2, S3, RDS, Cloud Formation, Cloud Watch, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Familiarity with development best practices such as code reviews, unit testing, system integration testing (SIT), and user acceptance testing (UAT).
- Highly motivated, quality-minded developer, with proven ability to deliver applications against tight deadlines.

Education:

- Master's in Information Technology
  Wilmington University, New Castle, DE

Technical Skills

Python Libraries	SQLAlchemy, Pandas, REST API, PySpark, Open API.
Database	MySQL, Postgresql, MongoDb and NoSQL database
Cloud Technologies	Amazon Web Services (S3, Cloud Watch, API Gateway, RDS, Cloud Formation, Lambda, EC2)
Tools & Technologies	Git, GitHub, Docker, Jira, Html, CSS, Bootstrap, Jenkins, Django, Flask,React.
IDE& Project Methodologies	PyCharm, Visual Studio, Agile, Scrum and Waterfall.

Professional Experience

Client: Experian - Remote | Oct 2024 to Present | Python Engineer
Responsibilities:

- Developed Python scripts to automate the data sampling process. Ensured the data integrity by checking for completeness, duplication, accuracy, and consistency
- Built numerous Lambda functions using python and automated the process using the event created.
- Developed REST APIs using amazon api gateway to trigger lambda functions.

- Written scheduled jobs using Python modules Scheduler, AP Scheduler to synchronize the data between different databases.
- Implemented REST APIs in python using micro-framework like Flask with Sqlite in the backend for management of data.
- Engineered Python-based data transformation scripts for integrating customer behaviour data into SQLite, allowing the team to identify findings and fix the three biggest causes of database query errors.
- Performed Data Cleaning, features scaling, features engineering using pandas, and NumPy packages in python
- Analysing various logs that have been generating and predicting/forecasting the next occurrence of an event with various Python libraries.
- Analysing the source data coming from different sources (SQL Server, Json and Excel) and working with business users and developers to develop the Model.
- Worked on cloud formation scripts to create a collection of related aws services.
- Involved in writing complex sql queries for performing various CRUD operations.
- Performed troubleshooting, fixed, and deployed many Python bug fixes of the two main applications that were the main source of data for both customers and the internal customer service team.
- Assisted with writing effective user stories and dividing the stories into SCRUM tasks.
- Participated in weekly release meetings with technology stakeholders to identify and migrate the potential risks associated with the releases.

Client: Ford - Michigan | Sep 2023 to Sep 2024 | SOFTWARE ENGINEER
Responsibilities:

- Writing effective, scalable code. Developing back-end components to improve responsiveness and overall performance. Text Processing and analytics with Python.
- Strong in data structures and algorithms and computer science fundamentals. Improve functionality of existing systems
- Coordinate with internal teams to understand user requirements and provide technical solutions. Uphold data quality standards and guidelines.
- Review third-party products and solutions to determine what a good fit to the common needs is. Design and Development of sophisticated data driven software platforms using Python.
- Involved in performance tuning of Pyspark applications for fixing right batch interval time and memory tuning.
- Worked on ETL processing which consists of data transformation, data sourcing, mapping, conversion and loading.
- Worked on Developing Airflow Dags for Job monitoring and scheduled jobs to run every day using Python2 and Python3.
- Used operators like Python Operator, Bash operator, Ansible operator to run spark commands using shell scripts.
- Designing, Building, and automating solutions utilizing AWS services such as EC2, S3, RDS, Lambda, IAM, and API Gateway.
- Developed code for Http API calls like (GET, PUT, POST, DELETE). Developed cloud formation scripts to create and update stacks. Experience Working on ORM toolkits like SQLAlchemy.
- Performed development and test of system enhancements which include SQL Jobs and SQL queries. Creating unit test/regression test framework for working/new code.

Environment: Python, REST API, ETL, Selenium, AWS, PL/SQL, Unix Shell Scripting.

Client: Multiplier AI Solutions - India | Oct 2021 to June 2023 | Python Developer
Responsibilities:

- Responsible for gathering requirements, system analysis, design, development, testing, and deployment
- 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.

- Write scripts using python modules and their libraries to develop programs that improve the processing of access requests.
- Worked on PowerShell for automation and made use of command-line shell and shell scripting.
- Developed Merge jobs in Python to extract and load data into MySQL database, also worked on Python ETL file loading and use of the regular expression
- Utilized PyUnit, the Python Unit test framework, for all Python applications and used Django Database APIs to access database objects.
- Designed and created backend data access modules using PL/SQL stored procedures and Oracle.
- Involved in the development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
- Designed object model, data model, tables, constraints, necessary stored procedures, functions, triggers, and packages for Oracle Database.
- Used Wireshark, live HTTP headers, and Fiddler debugging proxy to debug the Flash object and help the developer create a functional component

Environment: Python, PyCharm, Selenium IDE, JQuery, MySQL, HTML, CSS, JavaScript, Ajax, Web Services, JSON, Bootstrap, Jinja, Flask, SQL Workbench

Client: ESK Technologies - India| Sep 2019 to Sep 2021 | Software Engineer
Responsibilities:

- Deliver backend software solutions that yield excellent scalability and reliability. Collaborate with front end engineers, product managers and other engineers
- Realize unit/integration test scripts/code for testing software before release. Identify and resolve performance and scalability issues.
  Write and maintain design documentation
- Worked closely with the designer. Converted Photoshop images into XHTML/CSS, complex Flash integration. Designed and developed the UI of the website using HTML, AJAX, CSS and JavaScript.
- Worked on AJAX framework to transform Datasets and Data tables into HTTP-serializable JSON strings.
- Developed entire frontend and backend modules using PHP/Python.
- Maintenance PHP/MySQL (primarily Joomla), Classic ASP/MSSQL.
- Communicating and interfacing with previous developers on a regular basis.
- Successfully migrated the Django database from SQLite to MySQL to Postgresql with complete data integrity. Rewrite existing Python/C++/ Java module to deliver a certain format of data.
- Wrote python scripts to parse XML documents and load the data in the database.
- Executed Django evolution alongside manual SQL modifications to seamlessly adjust database models, ensuring 100% data retention and uninterrupted site functionality while operating in production mode without any downtime.

Environment: Python 2.7, PHP, C++, MySQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, Apache Web Server, Django, JQuery, json