**Sudhanshu Pandey**

**Python Developer**

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**Professional Summary:**

* Having **9+** years of Professional IT experience in Design & Development of applications using **Python, Java, SQL**, and NoSQL databases.
* Extensive involvement in system analysis, design, development, and implementation of web based and client/server applications using **HTML, CSS, JavaScript, Java/J2EE, JDBC, XML, Python, Django, PHPs**.
* Experience in Multi-Tier circulated Enterprise applications.
* Experience in execution of **Python** web frameworks like **Pylons, Web2py and Python Servlet Engine** (PSE).
* Experience in working with python editors like **PyCharm, PyScripter, PyStudio** and used Pylint extensively.
* Have good Knowledge of Agile Methodologies (**Scrum**) and experience in using API's REST, CRUD, SOAP.
* Has good experience in Automation Testing using **Selenium**.
* Good Experience in Error and Exceptional handling and debugging.
* Good experience in Shell Scripting, **SQL Server, Unix** and **Linux**.
* Researched new techniques to develop the application in salesforce like lighting, integration with social media and also with other applications.
* Used ticketing systems like Bugzilla and Jira.
* Worked with relational databases like **SQL database** and Teradata according to the needs of the client.
* Experience with migration of data from excel to SFDC through an apex data loader such as import, export and update the data.
* Experience with **Snowflake** cloud data warehouse and **AWS S3** bucket for integrating data from multiple source system which include loading nested **JSON** formatted data into snowflake table.
* Used Wireshark and Fiddler2 to debug and see what data and headers are flowing back and forth.
* Hands on experience on **AWS, GCP** (**Google Cloud Platform**).
* Created EBS volumes for storing application files for use with **EC2** instances whenever they are mounted to them.
* Wrote and executed various **MYSQL** database queries from python using **python-MySQL** connector and MySQL dB package.
* Testing and troubleshooting the Force.com APIs, such as customizable soap headers, debug logs for API traffic, backward compatibility testing with previous API versions, and single sign-on integration within the salesforce application by the workbench.
* Define virtual warehouse sizing for **Snowflake** for different type of workloads.
* Have good Knowledge in ETL and hands on experience in ETL.
* Experienced in Working on Big Data Integration and Analytics based on Hadoop, Spark and No-SQL databases like HBase and **MongoDB**.
* Experience with continuous integration and automation using Jenkins
* Experience with Unit testing/ Test driven Development (**TDD**), Load Testing.
* Good experience of software development in Python (libraries used: Beautiful Soup, NumPy, SciPy, Matplotlib, Pandas data frame, urllib2, **MySQL dB** for database connectivity) and IDEs - sublime text, PyCharm, Microsoft Visual Code.
* ETL pipelines in and out of data warehouse using combination of Python and Snowflakes SnowSQL Writing SQL queries against **Snowflake**.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on SQL and PostgreSQL
* database.
* Experienced in writing PERL script to extract data from text files, web automation and converting the file formats.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on SQL and PostgreSQL database.
* Developed Cloud Formation templates, also launched **AWS** Elastic Beanstalk for deploying, monitoring and scaling web applications using different platforms like **Docker, Python** etc.
* Extensively worked with automation tools like Jenkins, Artifactory, Sonarqube for continuous integration and continuous delivery (**CI/CD**) with Ansible and to implement the End-to-End Automation.
* Ability to analyze complex systems and be in command of the details to provide solutions.
* Highly motivated, dedicated, quick learner and have proven ability to work individually and as a team.

**Technical Skills:**

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| Languages | Python, Core Java, JavaScript, PHP, SQL, PL/SQL. |
| Framework’s | Django, Django Rest Framework, Pylons, Webware, Flask Web framework, web2py, CSS Bootstrap. |
| Databases | SQL databases like **MS-SQL, SQL Server, Oracle, My SQL** and NoSQL dbs like **Dynamo DB, MongoDB**. |
| Application Servers: | **IBM Web Sphere, Apache Tomcat, IIS, Glassfish**. |
| Testing Tools | Selenium, Python Unit test, Google Test, Google Moc, Ansible. |
| Operating systems | **Windows, Linux/Unix, Ubuntu**. |
| IDE's/ Development Tools | PyCharm, Eclipse, emacs, vi. |
| Python Libraries | Beautiful Soup, Numpy, Scipy, Matplotlib, Tensor Flow, Requests, Anaconda. |
| Bug Tracking Tools | Trac, JIRA, Bugzilla, The Bug Genie. |
| Version Controls | Cvs, subversion, Git & GitHub. |
| Cloud Technologies | **Snowflake, SnowSQL, Snowpipe, AWS EC2, Lambda, Networking** etc., |
| Web Technologies | **HTML5, CSS3, XML, Java Script, JSON**, jQuery and Bootstrap. |
| Other Tools | Swim charts, Excel, MS Word, Visio, PowerPoint, Oracle data Management suite, Google Analytics, SharePoint, Salesforce CRM, Salesforce SFA, Apex Language, Apex Classes/Controllers, Apex Triggers, SOQL, SOSL. |

**Professional Summary:**

**Client: LexisNexis, Colorado Springs, CO Jan 2021 – Present**

**Role: Python Developer**

**Responsibilities:**

* Worked on building data transformations, PySpark algorithms for different aggregations of data based on the specifications.
* Involved with performance and process enhancement of the PySpark framework.
* Developed integration checks around the PySpark framework for Processing of large datasets.
* Worked on migration of PySpark framework into AWS Glue for enhanced processing.
* Wrote various automation scripts for automation of data processing on AWS Glue.
* Developed data warehouse model in snowflake for over 100 datasets using whereScape.
* Worked on Scripting CloudFormation Templates to auto provisioning of resources.
* Worked of various Quality control checks for data processing using Spark SQL.
* Build a data processing algorithm for incremental processing of data that’s aggregated each week.
* Wrote ETL jobs to read from web APIs using REST and HTTP calls and loaded into HDFS using java and Talend.
* Experience in developing single page application using AngularJS and Angular 2.
* Worked on data transformation like cleaning, partitioning of data for enhanced processing of data.
* Worked on setting up of SEE5 data mining server on AWS for pattern finding in the data
* Implemented Change Data Capture technology in Talend in order to load deltas to a Data Warehouse.
* Created and maintained reports and dashboards to provide fast access to key business metrics.
* Enhanced apex class and Visualforce page to create a custom related list, showing activities for selected contacts or clients.
* Wrote an apex trigger on contact for cross object field update for reporting purposes.
* Involved with migration of AI based project from Google Cloud Platform into AWS.
* Build Schedule based AWS Lambdas for automatic build and run of data processing pipelines
* Worked on building a standalone UI tool using wxPython for creating custom requirement JSON templets to feed into AWS Glue for ETL processing of data.
* Worked on setting of automated loading of data into SQL database using AWS Glue and Step Functions.
* Worked on integrating different AWS components like EC2 and Lambdas to work with AWS Athena.
* Build integration testing system that involved testing the entire framework with a code check in.
* Experienced writing unit test and google open-source automated testing framework Bazel
* Implemented Security features around AWS CodeCommit repository like pull requests using AWS IAM policies.
* Experienced in using different community and enterprise IDE’s (Integrated Development Environments) and tools like PyCharm and VSCode
* Involved in translating technical documents into engineering Specifications.
* Coordinated with DevOps teams for bug fixes and code releases
* Developed a rich user interface using CSS, HTML, JavaScript, and jQuery.
* Worked on automating the repetitive tasks using Ansible.
* Extracting acting data from the database using SAS/Access, SAS SQL procedures and creating 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 databases using MySQL, wrote several queries to extract data from the database.
* Communicated effectively with the external vendors to resolve queries.

**Environment:** Python, PySpark, wxPython, Apache, AWSGlue, AWS Athena, AWS StepFuctions, CloudFormation pytest, Bootstrap, Flask, Oracle, PL/SQL, MySQL, MS-SQL, REST, PyCharm, Windows, Linux.

**Client: BNY, New York City, NY Apr 2018 – Dec 2020**

**Role: Sr Python Developer**

**Responsibilities:**

* Wrote Python routines to log into the websites and fetch data for selected options. 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.
Developed a MATLAB algorithm which determines an object's dimensions from digital images.
* Proficient in performance analysis, monitoring and SQL query tuning using EXPLAIN PLAN, Collect Statistics, Hints and SQL Trace both in Teradata as well as Oracle.
* Evaluate Snowflake Design considerations for any change in the application
* Worked on client's CPQ project, salesforce integration with CPQ application.
* Developed various custom objects, tabs, components, and visual force pages.
* Hands on experience using query tools like TOAD, SQL Developer, PLSQL developer, Teradata SQL Assistant and Query man.
Web-services backend development using Python (CherryPy, Django, SQLAlchemy).
* Designed and configured database and backend applications and programs.
Participated in developing the company's internal framework on Python. This framework became a basement for the quick service's development. Framework based on CherryPy with GnuPg encryption (reGnuPg module) on the top.
* Used Luigi to build data pipelines to create dependencies between tasks and it is easy to write modular code.
* Used Service Oriented Architecture (SOA) to create an architecture using restful web services, to carry out actions like producing data, validating a customer.
* Taken the help of SOA architecture to enable loosely coupled services to reuse which saves lot of time.
* Experience in creating databases, users, tables, views, functions, Packages, joins and hash indexes in Teradata database.
* Wrote Insert and Updated SQLs in Teradata Scripts and validated the load process into the target tables.
* Used Luigi id data pipelining to enable immediate resumption after failure.
* Used Airflow for pipeline creation to write code that initiates pipelines dynamically.
* Created a Full-Service Catalog System which has a full workflow using Elasticsearch.
* For basic search used by different system via an API on top of the Elasticsearch.
* Used object-relational mapper (ORM) code library to automate the data transfer from relational tables in to objects which are being used in application code.
* Used object-relational mapper (ORM) as a bridge between relational database tables and python objects.
* Used ORM to switch between different relational databases whenever required.
* Used Ansible to document application dependencies into version control.
* Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
* Worked on direct Postscript to get more efficient Postscript output which prints faster than generic printer drivers.
* Adding Virtualization nodes into OpenStack.
* DevOps role converting existing AWS infrastructure to Server-less architecture AWS Lambda deployed via CloudFormation.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Has good experience in using Open stack CLI prompt and dashboard service.
* Generated Postscript files using python as plain text fields.
* Used Split function in python to break down large string into smaller strings.
* Used Commands like Show page in PostScript which forces the printer to print the currently drawn page.
* Developed backend of the application using the flask framework.
* Developed and tested many features for dashboard using Flask, CSS, and JavaScript.
* Worked on ETL tasks like pulling, pushing data from and to various servers.
Worked on resulting reports of the application and Tableau reports.
* Built Web application using Python, Django, Flask, JavaScript, AJAX, HTML and template languages.
* Experience in developing and configuring slack applications.
* Used slack API to integrate complex services with slack to get out of the box integrations.
* Built monitoring and self-healing with InfluxDb, Bash and Python.
* Developed dashboards to monitor druid cluster health using InfluxDb, Kafka.
* Worked on HTML5, CSS3, JavaScript, Git, REST API, Mongo DB, Riak, intelliJ IDEA.
* Design and setting up of environment of Mongo dB with shards and replica sets. (Dev/Test and Production).
* Created reports for the BI team using Sqoop to export data into HDFS and Hive.

**Environment:** Python 3.4/2.7, Django 1.7, HTML5, CSS, Bootstrap, JQuery, Visual Force Pages /Components, S-Controls, Apex Web Services, AJAX, **Workflow & Approvals,Chatter, Dashboards, JSON, JavaScript, PostgreSQL, T-SQL, MongoDB, , MySQL, NOSQL, Oracle Warehouse Builder(OWB**), Data Migrator(IBI), Google Cloud, Azure IOT Suite, Amazon S3, Redshift, Bugzilla, JIRA.

**Client: Vanguard, Malvern, PA Dec 2016 – Mar 2018**

**Role: Python Developer**

**Responsibilities:**

* Involved in preparing engineering specification with OOA and OOD.
* Used Rational Rose Enterprise to develop Use Case diagrams, Class diagrams, Collaboration and Sequence Diagrams, State Diagrams, Data Modeling.
* Developed application logic using Python, Jython, Java script.
* Used JMS for updating Mailing plans and tracking them. Implemented front end for third party Web service using JQuery, Html, AJAX, JSON and JavaScript.
* Used Java Server Pages for content layout and presentation with Python.
* Developed the frontend for interaction by using the Django framework. Created Data layer in MYSQL. Extracted and loaded data using Python scripts and PL/SQL packages.
* Supported Java application for Media portal management.
* Associated with development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Involved in preparing technical design document.
* Used Connect SOAP rule to fetch the Webservices.
* Used SOAP UI to test the external service.
* Used JIRA for project tacking.
* Involved in testing the application.

**Environment:** Java, Python 2.6, Django, CVS, JavaScript, HTML/CSS, MYSQL, PL/SQL, JDBC, Unix Shell Scripting, Red Hat Linux, WebLogic Application Server.

**Client: CVS Health, Cumberland, RI Aug 2014 – Nov 2015**

**Role: 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, SQLAlchemy).
* 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, and 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 files.
* Used Python and Django creating graphics, XML processing of documents, data exchange and business logic implementation between servers.
* Developed a 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 creating 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 databases using MySQL, wrote several queries to extract data from the database.
* Communicated effectively with the external vendors to resolve queries.

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