**PROFESSIONAL SUMMARY:**

* Over 9 years of experience in Design, Development, Implementation of Python, PySpark, Django, JavaScript and client - server technology-based applications.
* Experienced in working with various Python Integrated Development Environments like NetBeans, PyCharm, PyScripter, PyDev, Eclipse and Sublime Text.
* Hands on Experience in AWS like Amazon EC2, Amazon S3, Amazon Redshift, Amazon EMR and Amazon SQS.
* Worked on standard python packages like boto and boto3 for AWS.
* Good experience in developing web applications and implementing Model View Control (MVC) architecture using server side applications like Django, Flask and Pyramid.
* Hands on experience working in WAMP (Windows, Apache, MYSQL, and Python/PHP) and LAMP (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Good experience in handling errors/exceptions and debugging the issues in large scale applications.
* Solid experience in statistical programming languages like Python, SAS, Apache Spark, MATLAB, RDBMS and experience in Big Data technologies like Hadoop, Hive, Pig.
* Implemented responsive web pages using HTML5/CSS3, BootStrap and XML/JSON based SOAP and REST web services
* Designed and implemented large scale business critical systems using Object Oriented Design and Programming concepts using Python and Django.
* Very good experience with cloud platforms like Amazon AWS.
* Experienced in developing web based applications using HTML/HTML5, DHTML, CSS/CSS3, JavaScript, Angular JS, AJAX, XML and JSON.
* Experience on ETL and ELT Tools like SQL Server Integration Services (SSIS), also have knowledge in Data Migrator (IBI).
* Proficient in Microsoft BI platform technologies including SQL Server, SSIS, SSRS, Azure Data Factory, and Power BI
* Experienced in LAMP (Linux, Apache, MySQL, and Python), WAMP (Windows, Apache, MySQL, Python) architecture.
* Excellent experience with Python development under Linux OS (Debian, Ubuntu, SUSE Linux, RedHat Linux, Fedora).
* Experience with several Python packages like NumPy, Matplotlib, Scipy, PyQt, wxpython and PyTables.
* Experience in developing web applications by following Model View Control (MVC) Architecture using server-side application Django.
* Worked on several standard python packages like Numpy, MatPlotLib, Pickle, PySide, Scipy, wxPython, PyTables etc.
* Experienced in building api’s with Spring MVC, Spring boot, Hibernate and using in Angular 9, ReactJS with Typescript.
* Solid experience in statistical programming languages like Python, SAS, Apache Spark, MATLAB, RDBMS and knowledge of Big Data technologies like Hadoop, Hive, Pig.
* Worked on various applications using python integrated IDEs Eclipse, PyCharm, NetBeans and Geany.
* Well versed with design and development of presentation layer for web applications using technologies like HTML, CSS, and JavaScript.
* Leveraged Azure Cloud resources - Azure Data Lake Storage Gen2, Azure Data Factory, StreamSets(SDC), and Azures Data warehouse to build and operate a centralized cross-functional Data analytics platform
* Experienced in using Caching applications for large scale applications like Memcached, Redis.
* Experienced in working Asynchronous Frameworks like NodeJS, Twisted and designing the automation framework using Python and Shell scripting
* Expertise in working with different databases like Oracle, MySQL, PostgreSQL and Good knowledge in using NoSQL databases MongoDB (2.6,2.4)
* Proficient in developing complex SQL queries, Stored Procedures, Functions, Packages along with performing DDL and DML operations on the database.
* Proficient in Automated Verification and Validation testing tools.
* Hands on Experience in Verification and Validation testing project schedules.
* Excellent working knowledge in UNIX and Linux shell environments using command line utilities.
* Expertise in Production support and knowledge of deployment using AWS, Heroku and Jenkins.
* Experience working in both Water fall and Agile software methodologies.
* Familiarity with development best practices such as code reviews, unit testing, system integration testing (SIT) and user acceptance testing(UAT).
* Experience in working with Python ORM Libraries including Django ORM.
* Involved in all the phases of Software Development Life Cycle (SDLC) using Project management tools JIRA, Redmine and Bugzilla.
* Developed Node-based front-end applications for easy accessing, tracking and monitoring inventory system for internal usage with multi-level permission, SSRS, PySpark, Node.js
* Good experience with Python frameworks like Django and Flask.
* Hands on experience in working with various Version Control Systems, mostly GIT, CVS and subversion SVN.
* Expertise in Verification and Validation tools for coding used in Python.
* Highly motivated, quality minded developer, with proven ability to deliver applications against tight deadlines.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Languages:** | Python 3.x/2.x, SQL, C, C++, SAS,Java, SQL |
| **Python Framework:** | Django, Flask, web2Py, PySpark, Spark |
| **IDE’S:** | Eclipse, PyCharm, PyDev Eclipse, Net beans, MS Visio, Sublime Text, Notepad++, Concurrent Versioning System (CVS), SVN, GIT |
| **Databases:** | MS SQL, MySQL, Oracle, PostgresDB |
| **Web Technologies:** | XML, CSS3, HTML5, DHTML, JavaScript, JQuery, MVC, Bootstrap, RESTful, AJAX, Angular JS, Java Script , ReactJS. |
| **Web Services:** | SOAP, REST |
| **Methodologies:** | Agile, Scrum |
| **Operating Systems:** | Window, UNIX, Linux |
| **Build Tools:** | GNU, Apache Ant, Apache Maven, Buck, Bit-Bake, Boot, Grunt, Jenkins |

**PROFESSIONAL EXPERIENCE:**

**NYC, NY July 2022 to Present**

**Sr. Python Developer/ Data Engineer**

**Responsibilities:**

* Created Python and Bash tools to increase efficiency of call center application system and operations; data conversion scripts, AMQP/Rabbit MQ, REST, JSON, and CRUD scripts for API Integration.
* Worked on designing and deploying a multitude application utilizing almost all the main services of the AWS stack (like EC2, S3, RDS, VPC, IAM, ELB, Cloud watch, Route53, Lambda and Cloud Formation) focused on high availability, fault tolerance environment.
* Designed the screens with Priming, Angular9 with Typescript
* Build complex ETL jobs that transform data visually with data flows or by using compute services Azure Databricks, and Azure SQL Database
* Used EC2 and​Docker ​containers to deploy applications on ​Amazon Web Services, SSRS, PySpark ​
* Created methods (get, post, put, delete) to make requests to the API server and tested Restful API using POSTMAN. Also used Loaded CloudWatch Logs to S3 and then load into Kinesis streams for Data Processing.
* Used Celery with Rabbit MQ, MySQL, Django, and Flask to create a distributed worker framework.
* Developed file cleaners using Python libraries and made it clean.
* Utilized Python Libraries like Boto3, numpy for AWS.
* Gathered data files from Data Warehouse URL’s.
* Using raw files loaded data files from URL’s to Amazon S3 Bucket.
* Used Python programmimg and FastAPI for thebackend development, Bootstrap and React JS for frontend connectivity and PostgresDB for database.
* Implemented front-end with Angular.js, React.js, WebSockets, TypeScript. Performance optimization. mapping (ORM) solution, technique of mapping data representation from MVC model to Oracle Relational data model with an SQL-based schema.
* Used SAS to perform regression analysis and used matplotlib, plotly libraries in python to plot the data.
* Implemented a CI/CD pipeline with Docker, Jenkins and GitHub by virtualizing the servers using docker for the Dev and Test environments by achieving needs through configuring automation using Containerization.
* Experienced with AWS cloud platform and its features, which includes EC2, S3, ROUTE53 VPC, EBC,SNS, RDS and CLOUD WATCH.
* Worked on reading queues in Amazon SQS, which have paths to files in Amazon S3 Bucket.
* Aggregate clean files in Amazon S3.
* Generated 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.
* Worked on Python library, SSRS, PySpark to augment browser-based applications with functional capability
* 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.
* Created Sources, Routes, Pipelines, and Destinations to ingest data from source applications to Splunk using Cribl.
* Analyze Format data using Machine Learning algorithm by Python Scikit-Learn.
* Experience in python, Jupyter, Scientific computing stack (numpy, SciPY, pandas and 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.
* Maintained 80%+ test coverage. Tested the application using UI Automated testing tools. Implemented TDD mechanism.
* Experience with installation and configuration of Dynatrace monitoring tool. And created email alerts and threshold values using Dynatrace for our environment.
* Wrote Lambda functions in python for AWS's EMR, Lambda which invokes python scripts to perform various transformations and analytics on large data sets to various formats.
* 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.
* Built various graphs for business decision making using Python mat plotlib library.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Worked on Test Driven Development (TDD) using JUnit for writing test cases
* Developed Json Scripts for deploying the Pipeline in Azure Data Factory (ADF) that process the data using the Cosmos Activity.
* 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.
* Also worked on Amazon EC2 Clusters to deploy files into Buckets.
* Worked on Matillion ETL Tool, used it to transfer and load data into Amazon Redshift.
* Mentored and provided technical guidance to other test engineers as necessary during verification and validation activities
* Developed and maintained the Verification and Validation group’s project schedules and roadmap ensuring project on schedule.
* Experienced in Agile Methodologies and SCRUM Process.
* Exported/Imported data between various data sources.
* Created database using MySQL, wrote several queries to extract/store data.

**Environment:** Python 3.6, PySpark,C++, SAS, AWS, Java, Devops, Kubernetes, FastAPI, Postman, AWS(S3, EC2), Visual Studio Code, Pycharm, SSIS, React JS, CI/CD, RESTFUL Webservices, Azure Data Factory Typescript , Jenkins, RDS, Java, HTML, CSS3, Javascript, DHTML, JSON, Bootstrap, PostgresDB, DynamoDB, Linux, GITHUB, JIRA.

**Panasonic, TX Jan 2020 – June 2022**

**Sr. Python Developer/ Data Engineer**

**Responsibilities:**

* Involved in entire life cycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Developed and tested features for product detail UI using HTML5, Bootstrap and typescript.
* Developed web applications in Django Framework's model view control (MVC) architecture and manipulated databases by using Django database API along with MySQL, API.
* Created a Python, Django web-based application using Python scripting for data processing and MySQL for database, HTML5, CSS and JQuery for data visualization.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Provided GUI utilizing PyQt for the end user to create, modify and view reports based on client data.
* Designed and developed a horizontally scalable APIs using Django.
* Designed Data Quality Framework to perform schema validation and data profiling on PySpark
* Using Amazon EC2 command line interface along with Python to automate repetitive work.
* Worked with View Sets in Django-REST framework for providing web services and consumed web services performing CRUD operations.
* Practical experience programming in SAS, SQL, Python, and Java using Eclipse to extract patterns from very big datasets and turn data into a decision-supporting informational advantage.
* Designed and Developed User Interface using front-end technologies like HTML5, CSS3, JavaScript, Bootstrap and JSON.
* Performed installation and managed Grafana to visualize the metrics collected by Prometheus.
* Used Amazon EMR for map reduction jobs and test locally using Jenkins.
* Integrate the dynamic pages with Angular.JS and JQuery to make the page’s dynamic.
* Worked in an agile development environment.
* Created multiple Python and UNIX shell Scripts for various application-level tasks.
* Used Test driven approach for developing the application and implemented the unit tests using Python Unit test framework.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Scraping website using Python Beautiful Soup, and then parsed it with XML.
* Utilized Python libraries wxPython, numpy, Twisted and MatPlotLib.
* Implemented SQLAlchemy which is a python library for complete access over SQL.
* Worked on Element Tree XML API in python to parse XML documents and load the data in database.
* Skilled in collections and used for manipulating and looping through different user defined objects.
* Application was based on service-oriented architecture and used Python 2.7, Django1.5, JSF 2, Spring 2, Ajax, HTML, CSS for the frontend.
* Used Django configuration to manage URLs and application parameters.
* Created entire application using Python, Django, MySQL and Linux.
* Used Amazon Elastic Beanstalk with Amazon EC2 to deploy project into AWS.
* Accessed database objects using Django Database APIs.
* Generated Python Django Forms to record data of online users.
* Implemented Data tables to add, delete, update and display patient records and policy information using PyQt.
* Implemented a module to connect and view the status of an Apache Cassandra instance using python.
* Developed MVC prototype replacement of current product with Django.
* Improved the Data Security and generated report efficiently by caching and reusing data.
* Created UI using JavaScript and HTML5/CSS3.
* Managed datasets using Panda data frames and MYSQL. Queried the database queries using Python-MySQL connector and retrieved information using MySQL db.
* Recorded the online users data using Python Django forms and implemented test case using Pytest.
* Developed the application using the Test-driven methodology and designed the unit tests using Python Unit test framework.
* Created database using MySQL, wrote several queries to extract/store data.
* Exported/Imported data between various data sources.
* Integrated data from multiple applications using ETL and ELT tools like SSIS.
* Experienced in Agile Methodologies and SCRUM Process.
* Identified several hidden bugs caused by complicated multithreading issues such as race conditions caused by asynchronous events and resolved them.
* Responsible for debugging and troubleshooting the web application.
* Took part in the entire project’s lifecycle which includes Design, Development and Deploying, Testing, Implementation and support.
* Used Design patterns efficiently to improve the code reusability.

**Environment:** Python, Django, AWS, PySpark, Docker, CI/CD, Azure Data Factory, PyQt, Agile, Angular.js, jQuery, CSS3, DHTML, HTML5, JavaScript, Bootstrap, GitHub, Shell Scripts, Restful API, Grafana, TDD,MySQL, SDK,LINUX, typescript, and Windows. Jupyter Notebook, VIM, PyCharm, Shell Scripting, Angular.JS, JIRA, SAS.

**Charles Schwab Corporation, Chicago, IL June 2017 – Dec 2019**

**Role: Python Developer/ Data Engineer**

**Responsibilities:**

* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and JQuery.
* Implemented AJAX for dynamic functionality of web pages for front end applications.
* Worked on front end frameworks like CSS Bootstrap for responsive web pages.
* Developed and tested many features for dashboard, created using Bootstrap, CSS, and JavaScript.
* Worked on server side applications with Django using Python programming.
* Used Pandas for a data alignment and data manipulation.
* Utilized standard Python modules such as csv, itertools and pickle for development.
* Worked on Python OpenStack APIs and used Numpy for Numerical analysis.
* Used Ajax and JQuery for transmitting JSON data objects between frontend and controllers.
* Developed Wrapper in Python for instantiating multi-threaded application.
* Developed views and templates with Python and Django's view controller and templating language to created user-friendly website interface.
* Deployed project into Amazon web services (AWS) using amazon elastic bean stalk.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using ETL and ELT tools like SSIS.
* Created web application prototype using jQuery and Angular JS.
* Deployed the project into Heroku using GIT version control system,
* Maintained and Updated the application in accordance to the clientele’s requirement
* Used JIRA for bug tracking and issue tracking.
* Added several options to the application to choose particular algorithm for data and address generation.
* Developed the project in Linux environment.
* Used Agile Methodology and SCRUM Process.
* Maintained the versions using GIT and sending the release notes for each release.
* Supported the issues seen in the tool across all the teams for several projects.

**Environment:** Python 2.7, Django 1.4, webapp2, Wire shark, Fiddler2, typescript, CICD, Flash, Angular.js, HTML5, API, CSS3, JQuery, AWS, Shell Scripting, Java Script, JQuery, JSON, MySQL, SDK,Git, Apache, and Linux.

**Talisman Communication, India Nov 2013 - Mar 2017**

**Python/Django Developer**

**Responsibilities:**

* Used Agile Methodology and SCRUM Process.
* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Created Python and Bash tools to increase efficiency of retail management application system and operations; data conversion scripts, AMQP/Rabbit MQ, REST, JSON, and CRUD scripts for API Integration.
* Involved in writing API for Amazon Lambda to manage some Amazon Services.
* Used GitHub for Python source code version control, Jenkins for automating the build Docker containers.
* Used MySQL as backend database and MySQL dB of python as database connector to interact with MySQL server.
* Developed Business logic using Python 2.7
* Used Python based GUI components for the front-end functionality such as selection criteria. Administration of dedicated collocated RHEL 4 machine and configured complex Apache configuration files.
* Technical knowledge on EC2, IAM, S3, VPC.
* Participated in the complete SDLC process.
* Used Django framework for database layer development.
* Developed user interface GUI using CSS, HTML, JavaScript and JQuery.
* Responsible for setting up Python REST API framework using DJANGO.
* Created database using MySQL, wrote several queries to extract data from database using ETL and ELT tool (SSIS).
* Used Memcache as in memory key-value pair database to reduce traffic to database server.
* Wrote scripts in Python for automation of testing jobs.
* Deployment and Build of various environments including Linux and UNIX
* Installed and maintained web servers Tomcat and Apache HTTP (1.3, 2.2) Web servers in Red Hat Linux.
* Used web services for integration and testing.
* Jira is used as project management tool for issue tracking and bug tracking.
* Implemented monitoring and established best practices around using elastic search.
* Effectively communicated with the external vendors to resolve queries.
* Used GIT for the version control and deployed project into AWS.

**Environment**: Python, Django, C++, JSON, XML, SOAPUI, HTML, typescript, Restful API, Shell Scripting, SQL, MySQL, AWS, GIT, Linux.