**Senior Python Developer  
Name: Reshma**

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**SUMMARY:**

* Over a 10-year track record of consistently delivering high-quality web applications and software solutions.
* Proficient in utilizing Django and Flask frameworks to create scalable and efficient systems.
* Developed database-driven web applications using frameworks like Django in Python, contributing to the creation of robust and scalable systems.
* Executed PostgreSQL development tasks such as designing tables, creating views, and implementing joins, ensuring efficient data management and retrieval.
* Conducted migrations from SQLite databases while preserving data integrity, ensuring smooth transitions and seamless operations.
* Strong experience in Shell Scripting, SQL Server, UNIX, Linux, and OpenStack, with a focus on Python scripting for DevOps tools, CI/CD, and AWS Cloud Architecture.
* Proficient in managing application servers including WebSphere, WebLogic, JBOSS, and Tomcat, ensuring smooth deployment and operation of web applications.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using HTML, CSS, JavaScript, and jQuery.
* Designed and developed Data-driven, Behavior-driven, TDD, and Hybrid Automation frameworks using Selenium WebDriver and Python, and performed unit testing using Unittest and Pytest.
* Extensive experience in Python development and scientific programming, leveraging libraries such as NumPy and Pandas for efficient data manipulation and analysis.
* Utilized Apache CouchDB (NoSQL) on AWS Linux instances alongside RDS MySQL to store and analyze job market information.
* Proficient in utilizing Scikit-Learn and Statsmodels in Python for machine learning and data mining tasks, contributing to data-driven insights and predictive modeling solutions.
* Proficient in Docker, adept at deploying applications within software containers, ensuring portability and scalability of software solutions.
* Expertise in architecting and managing highly available cloud environments, focusing on scalable, maintainable, and secure solutions for web and distributed applications.
* Proven track record in designing integrated, reliable web applications utilizing Django and Flask frameworks, along with REST API structures, and implementing robust CI/CD systems through Jenkins, Bitbucket Pipelines, and AWS CodePipeline.
* Background as a full-stack developer and software architect, particularly in Python, Django, and Ruby on Rails development.
* Proficient in deploying on AWS and managing CI/CD pipelines effectively.
* Specializes in optimizing DevOps workflows, ensuring system reliability, and maintaining cloud infrastructure availability, particularly with AWS services.
* Comprehensive understanding of the Software Development Life Cycle (SDLC) and adeptly utilizing Agile, Scrum, Jira, and Waterfall methodologies to streamline development workflows and project management processes.

**EDUCATION DETAILS:**

Completed Bachelor’s from BVRIT HYDERABAD College of Engineering for Women -2013

**PROFESSIONAL EXPERIENCE:**

**Bank of America, Jersey City, NJ July 2021- Present**

**Senior Python Developer**

**Responsibilities:**

* Designed, developed, and implemented Python software architectures for the extraction, storage, and presentation of data in accordance with specified requirements.
* Executed application development tasks, addressed performance concerns, and managed software maintenance.
* Developed Python code from the ground up to extract metrics from remote servers.
* Implemented SQL Alchemy, a Python library, to enable comprehensive SQL access and management.
* Utilized Element Tree XMLAPI in Python for parsing XML documents and loading data into databases.
* Developed views and templates using Python and Django's view controller and templating language, enhancing website usability.
* Used XPath and DOM to work with dynamic and static objects in Selenium.
* Created Data-driven, Behavior-driven, Test-Driven Development (TDD), and Hybrid Automation frameworks utilizing Selenium WebDriver and Python. Conducted unit testing using Unitest and Pytest.
* Designed and maintained databases using Python, developing RESTful APIs with Flask, SQLAlchemy, and PostgreSQL.
* Configured and maintained Kubernetes clusters on EKS to support Python microservices architecture, leveraging Helm for package management and version control.
* Created a backup and recovery engine for VM using VMware vSphere APIs, Golang, and RabbitMQ message bus, ensuring data integrity and reliability.
* Developed responsive web product features using React JS, SAS, and Golang with REST, improving user experience and functionality.
* Utilized the Python library urllib to manage RESTful services.
* Created internal web applications using the Python Flask framework, incorporating CSS3 and HTML5.
* Built enterprise-wide DNS historical data trending analysis tools in Go, providing REST API for user queries as microservices.
* Designed and developed SAS models and applications for pattern identification and crisis information management using SQL, JavaScript, HTML, and CSS.
* Created Python scripts to parse XML and JSON reports, then loaded the data into databases.
* Utilized various development, testing, and release tools within the Quartz Desktop environment.
* Automated SAS applications for earnings at risk calculation, providing design, development, and testing support.
* Designed and developed user portals using AngularJS 2, HTML, CSS, and TypeScript, enhancing user interaction and experience.
* Developed single-page applications using AngularJS, JavaScript, Backbone.js, TypeScript, and NodeJs, improving application performance and maintainability.
* Led data integration projects for cross-platform reports using SAS, SQL, Teradata, and Python, streamlining data processing and analysis.
* Set up Selenium WebDriver, Unittest, Pytest, Robot, and pip tool configurations, developing selenium automation scripts in Python.
* Developed JavaScript and TypeScript reusable components and services for consuming REST APIs, improving code efficiency and maintainability.
* Integrated APIs with third-party applications using Python/Django-based web applications, PostgreSQL, and AWS services.
* Worked on app development using AWS Appsync and GraphQL, optimizing API platform and data management.
* Designed analytical applications using Python, Spark, HDFS, and AWS EMR, enabling efficient data extraction and analysis.
* Leveraged Pandas library for statistical analysis and flexible data reshaping.
* Automated bug filing processes using Python requests and AWS CLI, improving bug tracking efficiency.
* Managed version control using GIT and prepared release notes for each software release.
* Developed command-line tools to interact with RESTful APIs using Go.
* Participated in container clustering and orchestration using Docker Swarm, TeamCity, and Kubernetes, ensuring efficient deployment and management of applications.
* Developed Docker containers for multi-module Python-based pipelines and deployed them on AWS using Lambda, step functions, batch jobs, and CI/CD implementation.
* Oversaw production releases and addressed associated issues on a three-week cycle.

**CVS Health, NJ, USA April 2019- June 2021**

**Python Full Stack Developer**

**Responsibilities:**

* Developed the presentation layer of web applications using HTML, CSS, JavaScript, jQuery, and AJAX, ensuring intuitive user interfaces.
* Utilized JavaScript and JSON for webpage updates, enhancing user experience and interactivity.
* Developed consumer-based features using Django, HTML, and Test Driven Development (TDD), ensuring code reliability and quality.
* Developed Python web services for processing JSON and interfacing with the data layer, facilitating data exchange between applications.
* Optimized Django ORM queries to improve search index speed and reduce database queries, enhancing application performance.
* Automated various workflows using Python scripts and Unix shell scripting, enhancing efficiency and reducing manual intervention.
* Developed Python microservices with Django and Flask frameworks for internal web applications.
* Utilized Selenium WebDriver API to automate tests on cross-browser and cross-platform environments. Sound knowledge of Object-Oriented Programming concepts and the Java Language.
* Utilized Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks, adhering to Agile Software Development methodologies.
* Developed Sqoop scripts for handling change data capture in RDBMS tables, enabling efficient processing of incremental records.
* Implemented full CI/CD pipeline by integrating SCM (Git) with automated testing tool Gradle & Deployed using Jenkins and Dockerized containers in production and engaged in few DevOps tools like Ansible, Chef, AWS CloudFormation, AWS Code pipeline, Terraform, and Kubernetes.
* Installed and configured Hadoop, MapReduce, HDFS, and AWS, developing multiple MapReduce jobs in PIG and Hive for data cleaning and preprocessing.
* Managed datasets using Pandas data frames and MySQL, querying MySQL databases from Python using the Python-MySQL connector and MySQL dB package.
* Contributed to web/application development using Python 3.5, HTML5, CSS3, AJAX, JSON, and jQuery, enhancing user experience and functionality.
* Built and deployed RESTful microservices using Flask and Django on AWS servers, utilizing Elastic Beanstalk (EBS) and EC2.
* Developed and tested dashboard features using Python, Java, Bootstrap, CSS, JavaScript, and jQuery, ensuring high performance and usability.
* Generated Python Django forms for recording online user data and utilized PyTest for writing test cases, ensuring code reliability and quality.
* Utilized Bootstrap components and react-bootstrap components, such as accordion, date picker, time picker, alert, buttons, and modal, to streamline UI development.
* Implemented and modified SQL queries, functions, cursors, and triggers as per client requirements, optimizing database performance and functionality.
* Cleaned and processed third-party spending data using Excel macros and Python libraries such as NumPy, SQLAlchemy, and Matplotlib, facilitating data analysis and reporting.
* Utilized Pandas API for data manipulation and retrieval in time series and tabular formats, streamlining data processing tasks.
* Engineered responsive applications, employing Bootstrap and CSS media queries to adapt seamlessly to various screen resolutions.

**Sonata Software, Hyd, India (Nov 2015- Dec 2018)**

**Senior Java/Python Developer**

**Background Skills:**Python, Java, J2EE, Spring, Struts, JSF, JSP, EJB, DOJO, JQuery, Sencha ExtJS, JavaScript, GWT, MySQL, TOAD, SQL, DB2, coherence, APACHE AXIS2, Tomcat, WSDL, JBoss, Netbeans, Jasper report, Unix, Mercurial, ClearCase, Selenium, Water Fall Model, UML, Servlet, Ant, XML, iText, EMC Documentum, Jira, Swing, Cognos, iLog, JRules, Oracle ADF, Oracle BPM, Web 2.0, Linux, IBM MQ Series, Ruby, Wordpress, Drupal, Z, ASP, C, C++, Mainframe, COBOL, PL/I, JCL, SQL, SAS VB

**Responsibilities:**

* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web based solution.
* Responsible for gathering requirements, system analysis, design, development, testing and deployment
* Generated Python Django Forms to Record data of users.
* Utilize PyUnit, the Python unit test framework, for all Python applications.
* Rewrite existing Java application in Python module to deliver certain format of data.
* Developed Python batch processors to consume and produce various feeds.
* Worked on developing internal testing tools which were written in Python. Generated PythonDjango Forms to record data of online users.
* Wrote Python routines to log into the websites and fetch data for selected options.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Developed Business Logic using Python on Django Web Framework. Used JSF messages for handling the error messages for the applications
* Preparation of the framework classes for communication between portal to EJB and Hibernate
* Used Spring for cross cutting concerns and IOC for dependency injection.
* Developed application service components and configured beans using Spring IoC, creation of Hibernate mapping files and generation of database schema.
* Prepared statements are used for communication with MySql database
* Involved in developing custom taglibs, JSP, EJB's, JQuery, Portlets and DB2 - stored procedures.
* Used TOAD for all database query testing and optimizations.
* Implemented CSS3, DOM Api, DOJO and Ajax to create a dynamic and interactive experience.
* Designed and implemented interface elements using GWT Google Web Toolkit.
* Integrate the Oracle BPM with the Spring Framework in the enterprise layer.
* Implemented the MVC architecture using Apache Struts Framework.
* Used Ant for developing build scripts and deploying the application onto WebLogic.
* Configured glassfish server; Design shipping rate template upload UI using Jasper report.
* Designed various design Workflow Modules using BPM (Business Process Modeler) to implement Business Logic and Business rules using Ilog, Jrules.
* Involved in developing and modifying the credit card, consumer loan business rules in ILog JRules
* Designed and Developed the input/output data formats in XSD for the WSDL files and accordingly implementing services using Apache AXIS2 . Used NetBeans IDE to develop the application.
* Used Mercurial to keep track of versioning of the source code
* Developed web presentation layer using jQuery, JavaScript, HTML and CSS according to internal standards and guidelines.
* Design of the process flow in Oracle BPM and jBPM to evaluate the difference between the behavior of different BPM tools
* Used Netbeans for development and WebLogic Application Server for deploying the web application.
* Developed framework using Java, BIRT Runtime, iText, MySQL and web server technologies.
* Oracle Database access was implemented through Hibernate framework. Also used Jasper reports and Jfree charts to generate various statistical reports.
* Worked with ILog Jrule engine, to trigger the business rules in the rules execution engine configured in WebLogic application server.
* Integrate the Oracle BPM with the Spring Framework in the enterprise layer.
* Designed and built it based on previous Classic ASP version. Upgraded its original database from Access to SQL.
* J2EE to communicate legacy COBOL based mainframe implementations.
* Client Services Rep for SEO company specializing in Web 2.0
* Built ASP.NET C# legal billing program that accepts barcode gun input. Also used javascript to advance from field to field after gun is clicked.
* Used Dojo for the client side development and validations
* Migration of the MVC based Reporting framework to GWT (Google Web Toolkit) using GWT-EXT.
* Collaboration technology planning, social media adoption and metrics, Web 2.0 strategy.
* Written Web services using Apache Axis2 and generated the WSDL.
* Rewrote code for enabling download as .pdf with new iText library for Java
* Worked with Rational ClearCase to provide sophisticated version control, workspace management and parallel development support. Build and maintained a Selenium Regression test suite.
* Involved in Requirement analysis, design and Implementation applying the Water fall model.
* Wrote Servlets programming and JSP scripting for the communication between web browser and server.
* Used JMS to pick xml file from IBM MQ series Queues and Parsed xml documents using DOM parsers to get data.
* Involved in writing Spring Configuration XML, file that contains declarations and business classes are wired-up to the frontend managed beans using Spring IOC pattern.
* Created Jobs to Schedule multiple reports in Cognos Connection.
* Working with the JIRA tool for Quality Center bug tracking.
* Developed JavaScript based components using Sencha ExtJS framework like GRID, Tree Panel with client reports customized according to user requirements.
* Deployed this application which uses J2EE architecture model and Struts Framework first on Weblogic and helped in migrating to JBoss Application server.
* Implemented Oracle's coherence cache in our suite of applications.
* Implemented Coherence Cache which can be used with Spring Annotations.
* Wrote complex sql statements to retrieve data from the DB2 database.
* Used JBoss application server to deploy application into Production environment.
* Configuring and analyzing JCL to execute mainframe batch.
* Took complete Ownership of JRules by developing the complete architecture and integration with TSM application.
* Performed J2EE application deployment using JBoss application server on Windows and Linux.
* Expose PL/I database access layer as web service using RD/Z
* Responsible for the design, development, unit testing, deployment and maintenance of COBOL and PL/I programs for two major projects:
* Designed and developed front end screens for new reports using Swing components.
* Developed an application in Java using Oracle ADF framework.
* Use IBM MQ Series to send information from mainframe to web and back to mainframe
* Build code using IDE IntelliJ and deploy it using Apache Tomcat.
* Created directory structure flow using UNIX to receive and send data to internal and external systems
* Installed Drupal open-source content management system on domain.
* Coded scripts to clean normalize, reformat data for loading into the system using Ruby scripts
* Website development based on WordPress as a content management system.
* Designed and developed the individual components of the system using C++ and CORBA
* Developed code usinf C, C++ for secure transaction.
* Involved in packaging, deployment and upgrade of different modules of SAS VB on JBoss App Server. VB code Analysis and Sybase store procedure converted into SQL.

**TCS, HYD, India (Nov 2014- Oct 2015)  
Python Developer**

**Responsibilities:**

* Developed test automation scripts for deploying AWS and Company Web APIs, utilizing Python packages and puppet configuration tools for data retrieval and comparison.
* Automated Python scripts for testing programs to store machine detection alarms on Amazon cloud, ensuring timely response to system overloads.
* Programmed scripts to fetch and send data from Amazon cloud to clients, meeting their specific requirements and needs.
* Automated Smoke & Functional test cases using Selenium WebDriver, Unitest/Pytest/Robot & Python (PyCharm IDE and Ride IDE).
* Utilized Python and Pandas library to build data analysis graphs for documentation and record-keeping purposes.
* Employed SPSS tool for statistical programming, computational techniques, and visualization, summarizing complex data analyses using Python.
* Built applications for 2D-finite element analysis using numerical equations and Python language, enhancing engineering analysis capabilities.
* Utilized Django database APIs to access database objects, facilitating seamless data retrieval and management.
* Generated graphical reports using Python packages Numpy and Matplotlib, providing visual insights into data analysis results.
* Developed Python APIs to dump array structures in the Processor at failure points for debugging purposes, ensuring system reliability and stability.
* Extracted actual data from HTML format, predicted raw data, and stored predicted data in well-organized JSON files for future analysis.
* Wrote programs to parse Excel files and process user data with data validations, ensuring data accuracy and integrity.

**TCS, HYD, India**

**Software Engineer/Web Developer (May 2013- Nov 2014)**

* Collaborated with designers, analysts, and developers to write and execute reliable and efficient Python programs and SQL queries for desktop GUI and web applications, aligning with user and business requirements and established coding standards.
* Developed and maintained web applications using PHP, Laravel, and SQLite.
* Managed the development, enhancement, testing, and maintenance of backend code for reporting and client mechanisms.
* Designed and developed Use Case and Activity Diagrams, Sequence Diagrams, and Object-Oriented Design (OOD) using UML and Visio.
* Created and managed developer-level and user-level artifacts, including software version documentation, requirement documentation, deployment guides, user manuals, and project reports using Python Report Lab.
* Wrote both simple and advanced SQL queries and scripts to generate standard and adhoc reports for senior managers.
* Collaborated closely with Data Architects and the DBA team to implement data model changes in the database across all environments.

**TECHNICAL SKILLS**

**Programming Languages:** Python, JavaScript, Java, Scala

**Web Frameworks:** Django, Flask, React.js, AngularJS, GUI

**Cloud Services:** AWS (EC2, S3, Lambda, API Gateway, DynamoDB), Docker, Kubernetes

**Database Management:** PostgreSQL, MongoDB, MySQL, Oracle

**CI/CD Tools:** Jenkins, GitLab CI, GitHub Actions

**Containerization:** Docker, Kubernetes

**Monitoring and Logging:** Prometheus, Grafana, ELK Stack, Splunk

**Testing Tools:** PyTest, Selenium, Postman

**Other Tools:** Swagger/Open API, Terraform, Jira