**PYTHON DEVELOPER**

**Name: Parwinder Singh**

**PH: 3144458528
Email:** dpra8563@gmail.com

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**SUMMARY:**

* Over 10+ Years of experience in Analysis, Design, Development, Management, and Implementation of various standalone and client-server architecture-based enterprise application software.
* Extensive knowledge in Python, PHP, MySQL, NoSQL, UNIX and Linux.
* Experience with Design, code, debug operations, reporting, data analysis, and web applications utilizing Python.
* Worked with MVW frameworks like Django, Angular JS, HTML, CSS, XML, JavaScript, jQuery, JSON, and Node.js.
* Involvement in building frameworks and automating complex workflows using Python for Test Automation.
* Experience in writing REST APIs in Python for large-scale applications.
* Have good exposure to LAMP (Linux, Apache, MySQL, and Python) and WAMP Architectures.
* Excellent working Experience in Agile (SCRUM) using Rally and TFS, RUP, and Waterfall methodologies with high-quality deliverables delivered on time.
* Wrote Python modules to extract/load asset data from the MySQL source database.
* Good Command of web services with protocols SOAP, and REST.
* Utilized PyUnit, the Python unit test framework, for all Python applications.
* Anticipated potential parts of failure (database, communication points, file system errors). Good working experience in using version control systems CVS, SVN, Amazon EC2, Git, and GitHub.
* Evaluated potential software products based on new and existing system development and migration requirements.
* Proficient in developing websites and web applications using PHP, MYSQL, AWS, Flask, Jinga, REDIS, HTML, XML, JSON, CSS, JavaScript & AJAX.
* Experience working on scalable data crawling, structuring and storage infrastructure on AWS cloud and data wrangling & processing.
* Used Spark SQL to query and analyze big datasets, boosting performance with effective query optimization techniques.
* Performed regression and system-level testing to verify software quality and function before it was released.
* Experience in working with Python ORM Libraries including Django ORM.
* Superior Troubleshooting and Technical support abilities with Migrations, Network connectivity, and Security and Database applications.
* Experience in setting up and configuring AWS Glue, a fully managed extract, transform, and load (ETL) service.
* Assessed costs and risks associated with developing new features and products.
* Skilled in testing tools like Bugzilla and JIRA.
* Contributed to the Python codebase used in the automated deployment of software on multiple virtual machines.
* Experienced in working with various Python IDEs using PyCharm, Spyder, NetBeans, PyStudio, PyScripter, Eric, Wing IDE, and PyDev.
* Adept at automating repetitive work through Shell scripts and Python.
* Able to analyze a requirement and act accordingly by managing the resources efficiently.

**TECHNICAL SKILLS:**

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| **Programming Languages** | Python 2.5-2.7/3.4-3.6, C, SQL and PL/SQL. |
| **Web Technologies** | HTML, CSS, DOM, SAX, JavaScript, jQuery, React JS, AJAX, XML, AngularJS. |
| **Frameworks** | Django, PyJamas, Flask, Jython, Pyramid, CherryPy |
| **Version Control** | MVC, SVN, CVS, Git, GitHub. |
| **Front End** | Angular, jQuery, Ajax, ExtJS, Node JS, React JS, JSON, Bootstrap, CSS, HTML |
| **Analytic Tools** | JMP PRO, SAS, Tableau, UCI NET, Node XL |
| **Application servers** | Apache Tomcat, JBoss |
| **Databases** | Oracle, My SQL, PostgreSQL, Apache Cassandra |
| **IDE’s/ Development Tools** | NetBeans, Spyder, Eclipse, PyCharm, PyScripter, PyStudio, Atom and Sublime Text. |
| **Operating Systems** | Windows 98/2000/XP/7/8/10, Red hat Linux 4.x/5.x/6.x, Ubuntu, and MacOS. |
| **Protocols** | TCP/IP, HTTP/HTTPS, SOAP, SMTP |
| **Testing Tools** | PyTest, Testify, Selenium, Bugzilla and JIRA. |
| **Cloud Technologies** | AWS,EKS, Event bridge,Lambda, Kafka |

**Education:** B. Com 2010, Kurukshetra University, India

 MBA 2012, Kurukshetra University, India

 Masters in IT, 2024, Webster University, MO

**WORK EXPERIENCE:**

**Senior Python Developer**

**HCA Healthcare, Inc, Nashville TN Jan 2024 – Present**

**Responsibilities:**

* Worked on the development of an internal testing tool framework written in Python.
* Developed GUI using Python and Django for dynamically displaying block documentation and other features of Python code using a web browser.
* Wrote scripts in Python for extracting data from HTML files.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Used JavaScript and JSON to update a portion of a webpage.
* Performed troubleshooting, fixed and deployed many bug fixes for applications that were a main source of data for both customers and the internal customer service team.
* Handled potential points of failure (database, communication points, and file system errors) through error handling and communication of failure.
* Experience in JavaScript framework like NodeJS, Angular and React.
* Developed user interface by using the React JS, Flux for SPA development.
* Responsible for debugging the project monitored on JIRA (Agile)
* Wrote Python scripts to parse JSON documents and load the data in the database.
* Worked on Restful APIs to access the third-party data for the internal analysis and statistical representation of data.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Build SQL queries for performing various CRUD operations like create, update, read, and delete.
* Developed entire frontend and backend modules using Python on Django including Tastypie Web Framework using Git.
* Deployed applications on AWS using Lambda, API Gateway, S3, and EKS.
* Worked on front-end frameworks like CSS Bootstrap for the development of Web applications.
* Created database using MySQL, and wrote several queries to extract data from the database.
* Worked in NoSQL database on simple queries and writing Stored Procedures for normalization and renormalization.
* Set up automated cron jobs to upload data into the database, generate graphs, and bar charts, upload these charts to the wiki, and backup the database.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS).
* Developed Merge jobs in Python to extract and load data into MySQL database.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Designed front end using UI, HTML, Bootstrap, Node JS, underscore JS, Angular JS, CSS, and JavaScript.
* Followed AGILE development methodology to develop the application.
* Involved in Database design, normalizations, and de-normalization techniques.
* Involved in User Acceptance Testing and prepared UAT Test Scripts.
* Effectively communicated with external vendors to resolve queries.
* Used and customized Apache server for checking our developed project.
* Experience in integrating Athena with other AWS services, such as AWS Lambda and AWS Glue, to create end-to-end data processing and analytics pipelines.
* Used Test-driven approach (TDD) for developing services required for the application.
* Implemented Integration test cases.
* Used Git to resolve and code the work on Python and portlet.

**Environment:** Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, jQuery, CSS Bootstrap, JavaScript, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting.

**Sr. Python Developer**

**UMB Financial Corporation, Kansas City MO July 2023 – Dec 2023**

**Responsibilities:**

* Used UML Rational Rose to develop Use-case, Class, and Object diagrams for OOA/OOD techniques.
* Built database models, Views and APIs using Python for interactive web-based solutions.
* Placed data into JSON files using Python to test Django websites. Used Python scripts to update the content in the database and manipulate files.
* Developed web-based application using Django framework with Python concepts.
* Generated Python Django forms to maintain the record of online users.
* Used Django API's to access the database.
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization.
* Skilled in using Collections in Python for manipulating and looping through different user-defined objects.
* Wrote Python modules to view and connect the Apache Cassandra instance.
* Created Unit test/ regression test framework for working/new code.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS).
* Installed and maintained web servers Tomcat and Apache HTTP in UNIX.
* Utilized standard Python modules such as CSV, itertools, and pickle for development.
* Developed efficient Angular.js for client web-based application.
* Developed application components using spring, Spring-Data, Spring Boot, NodeJS and PL/SQL.
* Worked in using React JS components, Forms, Events, Keys, Router, Animations and Flux concept.
* Deployed and managed AWS Cloud resources, focusing on Kafka, Eventbridge, and Lambda.
* Responsible for designing, developing, testing, deploying, and maintaining the web application.
* Designed and developed the UI for the website with HTML, XHTML, CSS, JavaScript and AJAX.
* Involved in working with Python open stock API's.
* Developed Spark Code using Python for faster processing of data.
* Responsible for managing large databases using MySQL.
* Wrote and executed various MySQL database queries from Python-MySQL connector and MySQL db package.
* Used the Python's modules numpy, matplotlib, etc. for generating complex graphical data, creation of histograms etc.
* Developed web application using React.
* Developed and designed an automation framework using Python and Shell scripting.
* Involved in debugging and troubleshooting issues and fixed many bugs in two of the main applications which are main source of data for customers and internal customer service team.
* Implemented SOAP/RESTful web services in JSON format.
* Associated with debugging the applications monitored on JIRA using Agile methodology.
* Attended many day-to-day meetings with developers and users and performed QA testing on the application.
* Experience in using containers like Docker.

**Environment:** Python 2.7,3.3, Django 1.4, HTML, CSS, AJAX, Tomcat, Apache HTTP, Angular.js, JSON, React, Restful, XML, JavaScript, OOD, Shell Scripting, GIT Hub, MYSQL, AWS, Cassandra, JIRA.

**Python Engineer**

**QUALCOMM, India Dec 2020 – Dec 2022**

**Responsibilities:**

* Designed and developed a data management system using MySQL.
* Worked on high-level design and detail design.
* Design, develop, test, deploy, and maintain the website.
* Developed the interactive user interface using jQuery JavaScript library.
* Developed/Modified GUI using HTML, CSS, and JavaScript (jQuery).
* Built application logic using Python 2.7, Django, and MYSQL.
* Rewrite existing Python/Django modules to deliver certain formats of data.
* Used Django Database API's to access database objects.
* Developed web application using React.
* Developed user interface by using React JS, and Flux for SPA development.
* Developed Python scripts to parse XML documents and load the data in the database.
* Worked on all the client-side validation using JavaScript.
* ETL pipelines were developed using Spark and Python to extract, convert, and load huge datasets from diverse data sources.
* Wrote Constraints, Indexes, Views, Stored Procedures, Cursors, Triggers, and User Defined functions.
* Extensively used Selenium Library to write a fully functioning test automation process that allowed the simulation of submitting different requests from multiple browsers to web applications.
* Worked with jQuery for all client-side JavaScript manipulation.
* Developed unit test/regression test framework for working/new code.
* Used a Subversion control tool to coordinate team development.
* Worked with Forms, views, and models using Django.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Debugging and troubleshooting the web application.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Generated complex graphical data, creation of histograms, etc. using Python's modules numpy, matportlib, etc.

**Environment:** Python, Django 1.3, React, MySQL, Linux, HTML, XHTML, SVN, CSS, AJAX, Bugzilla, JavaScript, Apache Web Server.

**Python Developer**

**Bank of Baroda, India Feb 2017 – Nov 2020**

**Responsibilities:**

* Worked on requirement gathering and High-level design.
* Used HTML/CSS, XML, and JavaScript for UI development.
* Converted Visual Basic Applications to Python and MySQL.
* Used Python scripts to update content in the database and manipulate files.
* Created Reports using JASPER.
* Modified queries, functions, cursors, triggers, and stored procedures for MySQL database to improve performance, while processing data.
* Developed build and deployment scripts using ANT & MAVEN as build tools in Jenkins to move from one environment to other environments.
* Use Spark DataFrames and RDDs to efficiently manipulate, convert, and aggregate structured and unstructured data.
* Implemented monitoring and established best practices around using Elastic search and used AWS Lambda to run code without managing servers.
* Prepared the Test data (Input files) for interpreting the Positive/Negative/regression results based on the design requirements.
* Developed automated test scripts from manual test cases for Regression testing based on the requirement documents using Quick Test Professional.
* Used Collections in Python for manipulating and looping through different user-defined objects.
* Responsible for Parsing XML data using XML parser and Testing, fixing of the bugs, and coding modifications.
* Created database tables, functions, stored procedures, and wrote prepared statements using PL/SQL.
* Applied EMV card algorithms to the system via Python programs.
* Contributed patches back to Django.
* Responsible for getting the teams up and running with game record features.
* Performed research regarding Python Programming and its uses and efficiency.
* Utilized Python in the handling of all hits on Django, Redis, and other applications.
* Used Thales theorem for applying encryption and decryption of ISO standard messages in Python programming.
* Used Redis as a messaging broker to execute asynchronous tasks.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS).
* Developed object-oriented programming to enhance company product management.
* Followed Agile Methodology and SCRUM Process.
* Extensive code reviewing using GitHub pull requests, improved code quality, and conducted meetings among peers.
* Collaborated with Product Management and User Experience experts regarding product definition, schedule, scope, and project-related decisions.
* Managed, collaborated, and coordinated the work of an offshore development team.

**Environment:** Python, Django, Visual Basic, Java Script, Hive, XML, AWS, JASPER, QTP, MySQL, PL/SQL, Oracle 9i, Bugzilla

**Software Engineer**

**DBS Bank, India Aug 2013 – Jan 2017**

**Responsibilities:**

* Used Agile Methodology and SCRUM Process.
* Worked with the Stakeholders, gathered requirements, and developed High-level design and Detailed design documents.
* Developed UI using HTML, AJAX, JavaScript, and jQuery.
* Re-engineered various modules for implementing changes and creating an efficient system.
* Developed rich UI web applications using JavaScript libraries like jQuery, DataGrid, jscolor, and highcharts.
* Designed and developed components using Python with Django framework. Implemented code in Python to retrieve and manipulate data.
* Implemented database access using Django ORM.
* Used MySQL as backend database and MySQLdb of python as database connector to interact with MySQL server.
* Implemented microservices architecture and communication between services using RESTful API for synchronous communication and Apache KAFKA for asynchronous communication
* Used Restful APIs to access data from different suppliers.
* Used Python and Django to create graphics, XML processing of documents, data exchange, and business logic implementation between servers.
* Associated with Restful APIs to gather network traffic data from Servers.
* Supported Apache Tomcat web server on the Linux Platform.
* Support the script configuration, testing, execution, deployment, and run monitoring and metering.
* Developed and executed the User Acceptance Testing portion of the test plan.

**Environment:** Python, Django, C++, HTML/XHTML, XML, MySQL, Shell Scripting, PL/SQL, Unix, Linux, Windows.