**Python Developer**

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**Professional Summary:**

* **Over 10+ years** of professional experience as a **Python Developer**, pro client coder in multiple languages and experience in Design, Development, Implementation of **Python**, **Django**, Flask, Pyramid and client - server technologies-based applications, RESTful services, **AWS**, C, C++, JAVA and SQL.
* Experienced in working with various stages of Software Development Life Cycle (**SDLC**), Software Testing Life Cycle (**STLC**) and QA methodologies from project definition to post-deployment documentation.
* Experience with **Design, code, debug operations, reporting, data analysis** and **Web Applications** utilizing **Python**.
* Experienced in implementing **Object Oriented Python**, **Hash Tables** (**Dictionaries**) and Multithreading, Django, MYSQL, Exception Handling and **Collections** using **Python**.
* Worked with MVW frameworks like **Django,** **Angular JS,** **HTML,** **CSS,** **XML,** **Java Script,** **jQuery,** **Bootstrap.**
* Experience in writing JSON REST APIs using **Golang.**
* Strong experience of software development in Python (libraries used: **libraries**- Beautiful Soup, **numpy,** **scipy,** **matplotlib,** python-twitter, **Pandas**data frame, networkx, urllib2, MySQL dB for database connectivity) and **IDEs**- sublime text, Spyder, emacs.
* Hands-on experience working with various Relational Database Management Systems (RDBMS) like **MySQL**, Microsoft SQL Server, Oracle & non- relational databases (NoSQL) like **MongoDB** and **Cassandra**.
* Experienced in developing Web Services with Python programming language - implementing JSON based **RESTful** and **XML** based **SOAP** web services.
* Experience in using Design Patterns such as **MVC**, Singleton and frameworks such as DJANGO, Ability in handling **Django ORM** (Object-Relational Mapper) and **SQLAlchemy**.
* Proficient in Python OpenStack **API'S** and **GUI** framework - Pyjamas (for web).
* **Pycharm** Proficient in performing Data analysis and Data Visualization using Python libraries.
* Scaling up projects using python tools like multithreading, celery.
* Experience in using Version Control Systems like the one **GIT**, **SVN** and **CVS** to keep the versions and configurations of the code organized.
* Experience in **UNIX/Linux shell** scripting for job scheduling, batch-job scheduling, automating batch programs, forking and cloning jobs.
* Exposure to **CI/CD** tools - Jenkins for Continuous Integration, **Ansible** for continuous deployment.
* Extensively worked on **Hudson/Jenkins**, Build Forge for continuous integration and for End-to-End automation for all build and deployments.
* Experienced with containerizing applications using **Docker**.
* Experience in maintaining and executing build scripts to automate development and production builds.
* Experience in **Amazon Web Services (AWS)** cloud platform like **EC2**, **Virtual private clouds**(VPCs), Storage models (**EBS**, **S3**, instance storage), **Elastic Load Balancers** (ELBs).
* Experienced in developing **API** services in Python/Tornado, while leveraging **AMQP** and **RabbitMQ** for distributed architectures.
* Experience in developing **ColdFusion** Components, custom tags and modified CF Objects.
* Experience with Unit testing/ Test driven Development (TDD), Load Testing.
* Experienced in building tools such as **ANT**, **Apache MAVEN**, and **JENKINS**.
* Experience in deploying applications in heterogeneous Application Servers TOMCAT, Web Logic and Oracle Application Server.
* Good Experience on testing tools like **JIRA** and **Bugzilla** for bug tracking.
* Excellent interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in team environment.
* Experienced in WAMP (Windows, Apache, MYSQL, and Python/PHP) and LAMP (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Experienced in installing, configuring, modifying, testing, and deploying applications with Apache.
* Understanding of Python Best Practices (PEP-8).
* Well versed with design and development of presentation layer for web applications using technologies like HTML, CSS, and JavaScript.
* Worked on SQL and PL/SQL stored procedures, which are used to create access to data, and deployed them to Oracle and SQL server databases.
* Familiar with JSON based REST Web services and Amazon Web Services (AWS).
* Experienced in developing Web Services with Python programming language.

**Technical Skills:**

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| **Languages:** | Python, C, C++, Shell Script, Java, PHP, PL/SQL, Ruby |
| **Version Controls:** | GIT, GitHub, SVN, CVS |
| **Web Technologies:** | JavaScript, HTML, CSS, JQuery, AngularJS, ExtJS, Node JS, React JS, JSON and bootstrap. |
| **Frameworks:** | Django, Flask, Pyramid |
| **Web Services:** | Soap, Apache Axis, Restful |
| **Bigdata Technologies:** | Hadoop, Hive, Pig, Spark |
| **Cloud:** | AWS, Openstack |
| **Databases:** | PostgreSQL, MySQL, MariaDB, Oracle 8i/9i/10g, MS Access, SQL Server, Sybase, SQLite, SQL Alchemy |
| **Operating Systems:** | Linux, Windows, IOS, MAC OSX |
| **NoSQL Databases:** | Mongo DB, Redis, Cassandra |
| **Protocols:** | TCP/IP, HTTP/HTTPS, SMTP |

**Professional Experience:**

**Client: Apple, TX July 2024 – Till Date**

**Role: Python Developer**

**Responsibilities:**

* Automate different workflows, which are initiated manually with Python scripts and Unix shell scripting.
* Create, activate, and program in Anaconda environment.
* Use Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in-line with Agile Software Development methodologies.
* Develop Sqoop scripts to handle change data capture for processing incremental records between new arrived and existing data in RDBMS tables.
* Installed Hadoop, Map Reduce, HDFS, AWS and developed multiple MapReduce jobs in PIG and Hive for data cleaning and pre-processing.
* Manage datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information.
* Involved in the Web/Application development using Python 3.5, HTML5, CSS3, AJAX, JSON and Jquery.
* Develop and tested many features for dashboard using Python, Java, Bootstrap, CSS, JavaScript and Jquery.
* 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.
* 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.
* 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 the next occurrence of event with various Python libraries.
* 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.
* Manage code versioning with GitHub, Bit Bucket, and deployment to staging and production servers and implement MVC architecture in developing the web application with the help of Django framework.
* Use Celery as task queue and RabbitMQ, Redis as messaging broker to execute asynchronous tasks.
* Design and manage API system deployment using fast http server and Amazon AWS architecture.
* Develop remote integration with third party platforms by using RESTful web services and Successful implementation of Apache Spark and Spark Streaming applications for large scale data.
* 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.
* 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.
* Querying data from MongoDB and using them as input for the machine learning models.
* Using AWS for application deployment and configuration.
* Wrote UNIX shell scripting for automation.
* Developed views and templates with Django view controller and template Language to create a user-friendly website interface.
* Used JavaScript and JSON to update a portion of a webpage.
* Develop consumer-based features using Django, HTML and Test Driven Development (TDD).
* Developed Python web services for processing JSON and interfacing with the Data layer.
* Increased the speed of pre-existing search indexes through Django ORM optimizations.
* Developed module to build Django ORM queries that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.

**Environment:**Python 2.7, Django, HTML5/CSS, PostgreSQL, MS SQL Server 2013, MySQL, JavaScript, Jupyter Notebook, VIM, PyCharm, Shell Scripting, Angular.JS, JIRA.

**Client: Honeywell, PA July 2023 – June 2024**

**Title: Python Developer**

**Responsibilities:**

* Developed Python Django forms to record data and the Login module page for users.
* Designed email marketing campaigns and created interactive forms that saved data into database using Django Framework.
* Developed the automated process for processing the payer acknowledgements that helped in resubmitting the medical claims automatically using PERL and DBI modules.
* Worked on Technologies: QT, JAVASCRIPT, QML, and unit test, C++, QNX, UML API, JavaScript and Json.
* Used collections in Python for manipulating and looping through different your defined objects and worked in Test driven development with Behave in Python.
* Also have rich experience on testing REST Full API like Facebook and Twitter.
* Wrote Python routines to log into the websites and fetch data for selected options.
* Improving the performance while processing data by modifying functions, queries, cursors, triggers and stored procedures for MySQL database.
* Extracted data from XML files using PERL -XML modules.
* Developed the consumer-friendly front-end with an easy-to-use API UI and fast access RESTFUL.
* Worked with JSON based REST Web services.
* Use of API, Open NLP & Stanford NLP for Natural Language Processing and sentiment analysis.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Developed views and templates with python and Django's view controller and Templating language to create a user-friendly website interface.
* Used Amazon Web Services (AWS) for improved efficiency of storage and fast access.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Participated in the complete SDLC process and used PHP to develop website functionality.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, and unit test, GCP CSS, JAVASCRIPT and JavaScript.
* Developed entire frontend and backend modules using python on Django Web Framework.
* Designed and developed data management system using MySQL.
* Used Django APIs for database access and built application logic using python.
* Provided GUI utilizing PyQt for the end user to create, modify and view reports based on client data.
* Used python to extract information from XML files.
* Expertise in Service Oriented Architecture (SOA) and its related technologies like Web Services, BPEL, WSDLs , AWS, SOAP, API, XML, XSD, XSLT etc.
* Worked on development of SQL and stored procedures on MYSQL and designed Cassandra schema for the APIs.
* Designed and developed a horizontally APIble APIs using python Flask and implemented monitoring and established best practices around using elastic search.

**Environment:** Python, Django, API, Behave, Puppet Rspec, Jenkins, unit test, Grafana Graphite, MySQL, Linux, HTML, CSS, Bootstrap, RDS JQuery, API, AWS, JavaScript, GCP, Apache, Linux, Git, C++, API, SOAP, RESTFUL, REST, Perl, Cassandra, Azure Automation cloud services.

**Client: PenMark Solutions, India Nov 2020 – Dec 2022**

**Title: Python Developer**

**Responsibilities:**

* Gathering requirements and translating the **Business details** into **Technical design**.
* Participated in all the stages of software development lifecycle **(SDLC)** like design, testing development and implementation.
* Developed entire frontend and backend modules using **Python**on **Django Web Framework**by implementing MVC architecture.
* Developed the tools using **Python Django**and used **MongoDB**for databases. Parsers written in Python for extracting useful data from the design data base. Used Parse kit (Enigma.io) framework for writing Parsers for ETL extraction.
* Implemented responsive user interface and standards throughout the development and maintenance of the website using the **HTML**, **CSS**, **JavaScript**, **Bootstrap, jQuery**.
* Extensively worked with **spark Data frames**for ingesting data from flat files into RDD's to transform unstructured data and structured data.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Experience in creating **Docker** containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch.
* Setup Docker on Linux and configured Jenkins to run under Docker host.
* Developed various API’s for **Django** applications using **Django-tasty pie**.
* Used JIRA to build an environment for development.
* Developed Wrapper in Python for instantiating multi-threaded application.
* Creating **RESTful** web services for Catalog and Pricing with **Django MVT**, **MySQL**, and **MongoDB**.
* Fixed bugs, providing production support, enhanced applications by improving code reuse and performance by making effective use of various design patterns.
* Deployed and monitored scalable infrastructure on Amazon web services (**AWS**).
* Implemented monitoring, established best practices around using Elastic search,and used AWS Lambda to run code without managing servers.
* Front-end web development using HTML/CSS, JQuery, Bootstrap as well as back-end development using **Golang** and **SQL**.
* 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.
* Experienced in building a Command line tool to interact with RESTful API using in **Golang.**
* Familiar with **UNIX**/ **Linux**internals, basic cryptography & security.
* Generated graphical reports using python package **Numpy** and **Matplotlib**.
* Implemented task object to interface with data feed framework, invoke database message service setup, and update functionality.
* Performed efficient delivery of code based on principles of Test Driven Development (**TDD**) and continuous integration to keep in line with Agile Software Methodology principles.

**Environment:** Python 3.4/2.7, Django 1.7, CherryPy, Golang, HTML5, CSS, Bootstrap, JSON, JavaScript, AJAX, RESTful web service, MongoDB, MySQL, jQuery SQLite, Elastic search, Docker, Windows 12 Server, AWS (EC2, S3), PyUnit, Jenkins, Selenium Automation Testing.

**Client: Globarena Technologies Pvt. Ltd, India Apr 2017 – Oct 2020**

**Title: Python Developer**

**Responsibilities:**

* Analysis and Design of applications.
* Developed and tested many features for dashboard using Python, Django and JavaScript.
* Worked with millions of database records daily, finding common errors and bad data patterns and fixing them.
* Designed and developed ETL APIs which will automate the data mining in different database sources.
* Exported/Imported data between different data sources using SQL Server Management Studio.
* Maintained program libraries, user's manuals and technical documentation.
* Managed large datasets using Panda data frames and MySQL.
* Wrote and executed various MySQL database queries from python using Python-MySQL connector and MySQL dB package.
* Hands-on experience in writing and reviewing requirements, architecture documents, test plans, design documents, quality analysis and audits.
* Setting up databases in AWS using RDS and configuring instance backups to S3 bucket
* Work closely with development teams to integrate their projects into the production AWS environment and ensure their ongoing support.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that are main source of data for both customers and internal customer service team.
* Used Go Lang to create backend servers. Developed Micro services using Go language and developed corresponding test cases
* Contributed source code in Golang to developing an automation framework for AWS CFN.
* Created PDF reports using Golang and XML documents to send it to all customers at the end of month with international language support.
* Taken part in entire life cycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Implemented a continuous Delivery Pipeline with Jenkins and GitHub to build a new Docker container automatically
* Used Docker to implement a high-level API to provide lightweight containers that run processes isolation and worked on creation of customized Docker container images, tagged and pushed the images to the Docker repository.
* Worked in development of applications especially in UNIX environment and familiar with all of its commands.
* Refactored existing project to make it more RESTful and thread-safe.
* Developed Golang API and chat-bot using TDD to automate software deployments and rollbacks
* Designed RESTful XML web service for handling AJAX requests.
* Created project designs utilizing MVC architecture components.

**Environment:** Python, Django, GoLang, HTML5/CSS, UNIX, MS SQL Server 2013, AWS, T-SQL, Reports, JavaScript, Eclipse, Linux, Shell Scripting, Restful, MVC3.

 **Client: Infineon Technologies, India Sept 2015 – Mar 2017**

**Title: Python Developer**

**Responsibilities:**

* Participated in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.
* Used the Django Framework to develop the application.
* Implemented web applications in Flask and spring frameworks following MVC architecture.
* Used Python to place data into JSON files for testing Django Websites.
* Updated and manipulated content and files by using python scripts.
* Organized Python code using PEP8 online tool including documentation of scripts.
* Implemented web applications in Flask and spring frameworks following MVC architecture.
* Installing, configuring and upgrading EMC Power-path for AIX servers.
* Used Django configuration to manage URLs and application parameters.
* Wrote Automation test cases using Selenium WebDriver using Python API.
* Sole engineer responsible for automated test design, frontend and backend feature implementation, and any other improvements to the test automation framework.
* Designed and implemented a distributed, QA infrastructure for automated testing of a multi process software product.
* Abided by PEP8 Python coding standard for Squish scripts.
* Worked on Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Chef and Puppet.
* Worked on Python Open stack API's.
* Wrote Automation test cases using Selenium WebDriver using Python API.
* Installed Veritas Cluster Server on Solaris, with Oracle agent.
* Used Python scripts to update content in the database and manipulate files.
* Generated Python Django Forms to record data of online users
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Used Flask to connect front-end to back-end, CherryPy to build the server and word clouds to visualize movies.
* Used latest Video Conference Applications and worked extensively on them.
* Data mapping, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data within the Oracle database.
* Performed daily administration functions, including database management, monitoring, performance tuning, backup & recovery and also general troubleshooting on multiple UNIX platforms and Windows Servers.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Used HTML, CSS, JQuery, JSON and JavaScript for front end applications.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS, and JavaScript.
* Also, used Bootstrap as a mechanism to manage and organize the html page layout.
* Used Django configuration to manage URLs and application parameters.
* Built various graphs for business decision making using Pythonmatplotlib library.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL dB package.
* Worked with PIP in managing software packages written in Python.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Manage, collaborate, and coordinate the work of an offshore development team.
* Worked on rebranding the existing web pages to clients per the type of deployment.
* Worked on updating the existing clip board to have the new features as per the client requirements.
* Responsible for debugging the project monitored on JIRA (Agile)
* Analyzed performance test requirements and developed test plans and have done debugging to understand test objective requirements.
* Performed 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.

**Environment:** Python, Amazon AWS S3, MySQL, HTML, Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, MS SQL Server, JavaScript, AWS, Linux, Shell Scripting, AJAX.

**Client: Qualcomm, India June 2013 – Aug 2015**

**Title: Python Developer**

**Responsibilities:**

* Participated in requirement gathering and worked closely with the architect in designing and modeling.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Developed tools using Python, Shell scripting, XML, BIG DATA to automate some of the menial tasks.
* Used PyQt for the functionality filtering of columns helping customers to effectively view their transactions and statements. Implemented navigation rules for the application and page.
* Performed testing using Django's Test Module.
* Used Django configuration to manage URLs and application parameters.
* Involved in Web development, programming, and engineering Django, Web Server Gateway Interface (WSGI) and SQL internal admin tools behave Behavior - driven development (BDD).
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Developed a fully automated continuous integration system using Git, Jenkins, MySQL and custom tools developed in Python and Bash.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture
* Creation of Python scripts for data access and analysis (Scripts, Data Feeds, XLS, FIXML) to aid in process and system monitoring, and reporting.
* Rewrite existing Java application in Python module to deliver certain format of data.
* Wrote Python scripts to parse XML documents and load the data in database.
* Generated property list for every application dynamically using Python.
* Responsible for search engine optimization to improve the visibility of the website.
* Designed and developed the UI of the website using HTML5, XHTML, AJAX, CSS3, BIG DATA and JavaScript.
* Handled all the client-side validation using JavaScript.
* Designed and developed data management system using MySQL.
* Created a Git repository and added the project to GitHub.
* Build development environment with JIRA.
* Creating unit test/regression test framework for working/new code.
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.

**Environment:** Python, Django, CSS, HTML, JavaScript, jQuery, webbapp, AJAX, MYSQL, Linux, Heroku, GIT, urllib, urllib, Oracle DB, PostgreSQL, and VMWare API