**Python Developer**

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**Professional Summary:**

* **Over 11 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, debugging 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 understanding of both languages' syntax, data structures, algorithms, and standard libraries.
* Strong experience of software development in Python (libraries used: **libraries**- Beautiful Soup, **NumPy,** **SciPy,** **matplotlib,** python-twitter, **Panda’s**data frame, network, 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.
* Developed entire frontend and backend modules using **Python with Node JS and React JS**
* Experience in using Design Patterns such as **MVC**, Singleton and frameworks such as DJANGO, Ability in handling **Django ORM** (Object-Relational Mapper) and **SQL Alchemy**.
* 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 **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.
* Experience in steaming platform like **Kafka** using python.
* 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.
* 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 a 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).
* Experience in using **Scikit**-**Learn** and Stats models in Python for Machine Learning and Data Mining.
* Use of **NLTK**, **Open** **NLP** & **Stanford** **NLP** for Natural Language Processing and sentiment analysis.

**Technical Skills:**

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| **Languages:** | Python 2.7 /3.7, C, C++, Shell Script, PHP, PL/SQL, Java/J2EE. |
| **Version Controls:** | GIT, GitHub, SVN, CVS |
| **Web Technologies:** | JavaScript, HTML, CSS, jQuery, AngularJS, ExtJS, Node JS, React JS, JSP, CSS3, Bootstrap, XML, JSON, jQuery UI, Ajax, Webservices, REST API's. |
| **Frameworks:** | Django, Flask, Pyramid Django, Celery, MongoDB, AngularJS, Django Rest Framework, Hibernate, Spring MVC, Git.  |
| **Web Services:** | Soap, Apache Axis, Restful, Web Sphere, Web Logic, Apache Tomcat |
| **Bigdata Technologies:** | Hadoop, Hive, Pig, Spark, Kafka |
| **Cloud:** | AWS, Open stack |
| **Databases:** | PostgreSQL, MySQL, MariaDB, MS Access, SQL Server, SQL Alchemy, Oracle (10G,11G). |
| **Operating Systems:** | Linux, Windows, IOS, MAC OSX |
| **NoSQL Databases:** | Mongo DB, NoSQL, Redis, Cassandra |
| **Protocols:** | TCP/IP, HTTP/HTTPS, SMTP |
| **Tools and IDE:** | Selenium, Eclipse, NetBeans, Visual Studio, Netezza. |
| **Linux Versions:** | Ubuntu, Red Hat, VM Ware, KVM, Hyper-V, Centos |

**Professional Experience**

**Client: Best Buy, CA Aug 2023 – Till Date**

**Role: Sr 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
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Designed front end and backend of the application using Python on Django Web Framework.
* Use Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in Designed, developed, coded, worked in penetration testing and implemented a concurrent – multi-parallel – event oriented-processing - AKKA Actor System and Actors; to consume Scala Spark-SQL Rules which aggregated data to produce Quality Performance Reports (QPR) on Fiscal projections against Apprentice and Intern Job data.
* Designed, developed, coded and worked in penetration testing in customized DOL-AWS GovCloud Node.js Security Monitoring of VPC Zones using AWS – Lambda to load customized Spark-Scala Graph Application.
* Re-designed and transformed menu backend service to a containerized distributed service.
* Overhauled codebase to increase fault tolerance, scalability, and performance
* Involved in QBOT activity for multiple release like 13B,14B,15B,15BDP and Integration form multiple platforms like SSAS, SSRS, IM, NHK, Spitfire, EVR.
* Developed a Restful service using Python Flask framework.
* Used Python Flask framework to build modular and maintainable applications.
* Developed Restful Microservices using Flask and Django and deployed on AWS servers using EBS and EC2.
* Worked on several python packages like Para Miko, re (Regular Expression) and sockets to automate scripts.
* Developed a fully automated continuous integration system using Git, Gerrit, Jenkins, MySQL and custom tools developed in Python and Bash.
* Build Back-end support for Application from ground up using Python, Shell scripts & Perl.
* Implemented CI/CD pipeline using Nexus, bitbucket and groovy to develop and deploy applications in a continuous delivery and reduce manual intervention in the deployment process. Also, deployed applications to upper land by CICD automation using ansible tower and delivered the high-speed deployments for the application team and business. Also assisted and worked in different sub-projects, end to end CI-CD setup for technologies like database, Informatica, Python, SQLLDR technologies.
* Worked on Python script to enable Open VPN 3 Client Services.
* Worked on Python script to load updated packages in NFVI client adapter and change configurations.
* Worked on Python scripts for deploying SAE solutions in an automated way and configure NSO with any new data including NSO in HA.
* Worked in Apache CGI, Cherrypy, python and Bash programming on Red Hat virtual machines to maintain and automate Splunk server deployments and other in-house IT operations.
* Designed logic for semantic procedures and aggregate tables using standard SQL/PLSQL.
* Developed Python scripts to monitor health of Mongo databases and perform ad-hoc backups using Mongo dump and Mongo restore.
* Full stack development using Node.js, Express, Angular, Pug, MongoDB, and Microsoft Azure.
* Managed Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed Azure AD Connect, and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
* Deployed ASP.NET web Application in Azure using Web App service, connected it to Azure SQL Database and used Azure DevOps (VSTS) to provide CI/CD pipeline and created Azure Active Directory (AD) tenants and managed to restrict the access to Azure DevOps.
* 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 Business Logic using Python on Django Web Framework.
* Django Framework was used in developing web applications to implement the MVT.
* Rewrite existing Python/Django modules to deliver certain format of data.
* Wrote and executed various MySQL database queries from Python-MySQL connector and MySQL db. Package
* Used PyUnit, the Python unit test framework, for all Python applications.
* Worked with LAMP (Linux, Apache, MySQL, and Python) Architecture.
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization as well as wrote Python modules to view and connect the Apache Cassandra instance.
* Utilized standard Python modules such as csv, robot parser, intercools and pickle for development.
* Experience in setting up App pools and web sites in Python.
* Designed and developed the UI of the website using HTML5, AJAX, CSS3 and JavaScript.
* Used Pandas library for statistics Analysis and developed web pages using ASP. Net, C#, HTML, CSS, AJAX, Java Script, jQuery and IIS. Used ADO.NET Enterprise Library to connect with SQL Server Database.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Being a Full Stack developer, created a custom CMS built using Django, AWS (Amazon web service), REST, Json with JavaScript++, jQuery, AJAX components, worked closely with designer. Converted Photoshop images into XHTML/CSS.
* Implemented a selectable template structure in Django making it possible to change the HTML layout and design based on site URL and /or domain.
* Deployed production site using Apache 2.0 with mod python.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Worked with the Biz team and BPR to review the list of new changes required and prepared the LOE of the various phases of the project.
* Involved in the development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Developed and maintained server-side applications using Node.js and Performed research to explore and identify new technological platforms.

**Environment:** Python 3.7, Django, Flask, Azure, CSS, HTML, HTTP, JSON, NumPy, Panda, AWS, PostgreSQL, MVC, Eclipse, MySQL, REST, Shell scripting, Sublime, PyCharm, SQLite, web services, XHTML, XML.

**Client: Delta Airlines, GA May 2022 – July 2023**

**Role: Sr Python Developer**

**Responsibilities:**

* Worked on Python script to enable Open VPN 3 Client Services.
* Worked in Apache CGI, Cherrypy, python and Bash programming on Red Hat virtual machines to maintain and automate Splunk server deployments and other in-house IT operations.
* Designed logic for semantic procedures and aggregate tables using standard SQL/PLSQL.
* Developed Python scripts to monitor health of Mongo databases and perform ad-hoc backups using Mongo dump and Mongo restore.
* Full stack development using Node.js, Express, Angular, Pug, MongoDB, and Microsoft Azure.
* Managed Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed Azure AD Connect, and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
* Deployed ASP.NET web Application in Azure using Web App service, connected it to Azure SQL Database and used Azure DevOps (VSTS) to provide CI/CD pipeline and created Azure Active Directory (AD) tenants and managed to restrict the access to Azure DevOps.
* 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 Business Logic using Python on Django Web Framework.
* Django Framework was used in developing web applications to implement the MVT.
* Experience in setting up App pools and web sites in Python.
* Designed and developed the UI of the website using HTML5, AJAX, CSS3 and JavaScript.
* Used Pandas library for statistics Analysis and developed web pages using ASP. Net, C#, HTML, CSS, AJAX, Java Script, JQuery and IIS. Used ADO.NET Enterprise Library to connect with SQL Server Database.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Worked with the Biz team and BPR to review the list of new changes required and prepared the LOE of the various phases of the project.
* Hands on experience in creating tables, Analytical views, Attributes views and procedures.
* Involved in the development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Developed and maintained server-side applications using Node.js.
* Performed research to explore and identify new technological platforms.

**Environment:** Python 3.7, Django, Flask, Azure, CSS, HTML, HTTP, JSON, NumPy, Panda, AWS, PostgreSQL, MVC, Eclipse, MySQL, REST, Shell scripting, Sublime, PyCharm, SQLite, web services, XHTML, XML.

**Client: Global Infocom Networks LLP, India Oct 2018 – Nov 2021**

**Role: Sr Python Developer**

**Responsibilities:**

* Designed User Interfaces using BackboneJS, ReactJS, jQuery, Bootstrap, JavaScript, CSS, XML, and HTML.
* 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, UWSGI and SQL internal admin tools behave 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.
* Generated Python Django forms to record data of online users and used PyTest for writing test cases.
* Recorded the online users' data using Python Django forms and implemented test case using PyTest.
* Worked on Python Open stack API's, used Python scripts to update content in the database and manipulate files
* Designed and deployed machine learning solutions in Python to classify millions of previously unclassified Twitter users into core data product.
* Performed Data mapping between source systems to Target systems, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data
* Used various techniques using R data structures to get the data in right format to be analyzed which is later used by other internal applications to calculate the thresholds.
* Applied various machine learning algorithms and statistical modeling like decision tree, logistic regression, Gradient Boosting Machine to build predictive model using scikit-learn package in Python
* and node.js full stack development.
* Involved in GraphQL server, created model, resolver, and schema to interact with client-side
* Upgraded from Linux SuSE version 10 to 11 and from 11 to 12.
* Implemented Okta Single Sign on Authentication for several applications making using of Python SDKs, SAML and OpenID Connect.
* Hands on experience in Rest APIs, AWS, Open Shift, perl, BDDPL/SQL Amazon Web Services AWS provisioning and good knowledge of AWS services like EC2, S3, Red shift, Glacier, Bamboo, ELB (Load Balancers), RDS, SNS, SWF and EBS etc. and Azure.
* Provision RHEL and SUSE server for SAAS based application leveraging chef recipes.
* Development of new IPTV/IP Video SaaS lines of business for major satellite operators (Intelsat, SES); Enterprise
* Used PySpark-SQL to load JSON data and create schema RDD, Data Frames and loaded it into Hive Tables and handled Structured data using Spark-SQL.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly interface using MVC architecture.
* 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.
* Also, used Bootstrap and Angular.js as a mechanism to manage and organize the HTML page layout.
* 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 and JavaScript.
* Handled all the client-side validation using JavaScript.
* Worked on building RESTful and GraphQL APIs.
* Designed and developed data management system using MySQL.
* Created a Gi repository and added the project to GitHub.
* Involved in the development of RESTful Web Services for getting and sending data from the external interface in the JSON format.
* Designed and developed communication between client and server using Secured Web services such as Django-rest-framework.

**Client: DBS Bank, India July 2015 – Sept 2018**

**Role: 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 database. 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 HTML, CSS, JavaScript, Bootstrap, jQuery.
* 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.
* 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 and 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.
* 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 and 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: Ericsson India Pvt Ltd**, **India Mar 2012 – June 2015**

**Role: Linux System Administrator**

**Responsibilities:**

* Walmart Inc (Walmart) is a retailer that operates grocery stores, supermarkets, hypermarkets, department and discount stores, and neighborhood markets. The company’s stores offer groceries and consumables, health and wellness, technology, office and entertainment, apparel and home categories at everyday low prices. It also operates warehouse clubs, including Sam's Clubs.
* As a key member of the Walmart Store Support Team, I played a pivotal role in ensuring the seamless operation and efficiency of Walmart's store infrastructure and data centers. The project involved a comprehensive range of responsibilities, encompassing server administration, data center maintenance, and proactive troubleshooting to uphold the reliability of critical systems.
* Provided Linux system admin support for Wal-Mart (US Global). The server support includes Administration, File Systems Monitoring, Network Monitoring, Hardware and Firmware upgrades, Backup issues on servers, monitoring hardware errors and troubleshooting.
* Configuring and maintenance of VLAN’s and Network & Troubleshooting of Network switches (NORTEL – 6 port & Cisco 2950 – backup switch).
* Configuring the AMM/MMs for the stores remotely on Blade Chassis servers and upgrading Hardware & Firmware VPD's, RAID & storage multipath
* Level 1 Troubleshooting Storage (IBM -N5200, 3700, 3300), EMC STORAGE (AX-4's, VNX boxes) and Troubleshooting File system issues, performing FSCK's
* Responded promptly to down store pages, engaged field support teams, and dispatched onsite engineers to address critical server issues.
* Collaborated with field support personnel to validate FRU (Field Replaceable Unit) and serial numbers, ensuring accurate and efficient hardware replacements.
* Implemented proactive monitoring systems to track file performance, server load averages, and network issues.
* Anticipated potential problems and implemented pre-emptive solutions to maintain the stability and reliability of Walmart's server infrastructure
* Conducted regular server hardware replacements, including memory modules, CPUs, and expansion cards, to maintain hardware integrity.
* Collaborated with onsite engineers to perform routine server maintenance and troubleshooting tasks.
* Environment: Linux, file system monitoring, Load Average, server performance and configurations and H/W replacements, File system checks, faulty drives, storage drive replacements.