Sneha

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603 858 8118

Sr. Python Developer

Professional Summary:

* Senior Python developer having around 7 years of Dynamic experience in the areas of Data Distribution, Client/Server communication, Multi-threaded applications, Server-side programming, analytical programming using Python and Django.
* Developed various Python scripts to generate reports, send FIX messages (FIX Simulator), SOAP requests, TCP/IP programming and multiprocessing jobs.
* Experience in developing MVC web-based applications using Python web frameworks like Django, Pyramid, Flask and Web2Py.
* Built rich Prototypes and Applications using XML, CSS, HTML, XHTML, JavaScript and JQuery.
* Proficient using Python packages such as NumPy, SciPy, Requests, matPlotLib, Pickle, Pandas, PySide, wxPython, QT, PyGTK, PyTables and Scikit-learn.
* Expertise on Data bases such as MYSQL, Oracle, PL/SQL, PostgreSQL and NOSQL databases like MongoDB, Cassandra.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database
* Develop ETL packages using SSIS to insert datasets to SQL server and generate project reports using SSRS and SQL
* Experience in developing applications using Amazon Web Services like EC2, Glue, Cloud Search, Elastic Load balancer ELB, S3, SNS, CloudFront.
* Hands on experience on WAMP (Windows, Apache, MYSQL, and Python) and LAMP (Linux, Apache, MySQL, and Python) architecture.
* Worked with various Python packages like Sphinx, reportlab, xlwt, xlrd, virtualenv, lxml.
* Designed and developed web crawler in python using Scrapy framework and using RabbitMQ as a messaging server between the microservices.
* Expert on OOPS, Multi-threading, Exception-Handling & Collections in python.
* Written Python Scripts, mappers to run on Hadoop distributed file system (HDFS).
* Experience in Snowflake for providing interface for python application.
* Experience in C and C++ languages. Written C and C++ applications and also migrated many legacy applications to Python.
* Hands on experience in designing and maintaining the SOA.
* Expert in UNIX and Linux commands using command line utilities. Developed various Perl, Shell (bash, ksh) scripts to handle miscellaneous tasks.
* Have worked with AGILE and WATERFALL methodologies with high quality deliverables delivered on-time.
* Well experience in Data Extraction, Transforming and Loading (ETL) using various tools such as SQL Server Integration Services (SSIS), Data Transformation Services (DTS).
* Experience with WCF, Web API, Web Services, .NET Framework, IIS and SQL Server.

Education: Master’s in Information Technology’s, USA, Dec 2019

Bachelor of computer science, Pune university, India, May 2015

Technical Skills:

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| Operating Systems | Linux, Windows 10/8/7/Vista/XP, Mac |
| Programming Languages | Python 2.X, Python 3.X, C, C++, Java, SQL |
| Web technologies | HTML, CSS, XHTML, Java Script, Jquery |
| Webserver | Web logic, Apache Tomcat 5.5,6.0,8.0, NGINX |
| Databases | MySQL, PLSQL, Oracle, Microsoft SQL,  PostgreSQL, MongoDB |
| Python Web frameworks | Django, Pyramid, Flask, web2Py |
| Development IDE | PyCharm, Pydev Ecllipse, Vim, Net beans, MS Visio, Sublime Text, Notepad++ |
| Web Services | SOAP, RESTful |
| Version Control | Git-Hub, Sub Version |
| 3rd Party configuration Tools | Web-min, Cygwin |
| Build Tools | GNU, Apache Ant, Apache Maven, Buck, Bit-Bake, Boot, Grunt |
| Cloud Frameworks | Openstack, Helion. |
| Virtualization Platforms | KVM, HPVM, Dockers. |
| Profiling Tools | Cprofile, profile, tprof, gprof, |
| Methodologies | Agile, Scrum, Waterfall |

PROFESSIONAL EXPERIENCE:

Disney

Sr Python Developer May2021-until

Responsibilities:

* Work with WDAT site reliability engineering team to keep Disney services online and efficient.
* Involved in analysis, specification, design, and implementation and testing phases of Software Development Life Cycle (SDLC) and used agile methodology for developing application.
* Designed and developed the UI of the website using Nodejs, XHTML, React, Angular AJAX, CSS also used Bootstrap as a mechanism to manage and organize the html page layout
* Performed Version control using GIT.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Interfacing with supervisors, artists, systems administrators, and production to ensure production deadlines are met.
* Used JIRA to assign, track, report and audit the issues.
* Created functions and assigned roles in AWS Lambda to run python scripts, and AWS Lambda using java to perform event driven processing.
* Developed Server-side automation using Node JS scripting and connecting different types of SQL and NoSQL stores from Node JS.
* Implemented a **'server less'** architecture using **API Gateway, Lambda, and Dynamo DB** and deployed **AWS Lambda code** from Amazon S3 buckets. Created a Lambda Deployment function, and configured it to receive events from your S3 bucket
* Using Amazon EC2 command line interface along with Bash/Python to automate repetitive work.
* Championed in cloud provisioning tools such as Terraform and CloudFormation.
* Integrate the dynamic pages with Angular.JS and jQuery to make the pages dynamic.
* Developed web applications in Django Framework's model view control (MVC) architecture and manipulated databases by using Django database API along with MySQL
* Integrate the dynamic pages with Angular.JS and jQuery to make the pages dynamic.
* Responsible for debugging and troubleshooting the web application
* Used Run deck internal application of Disney for testing purpose to check the log outputs for different projects.

Environment: Site Reliability Engineering, Grafana, Splunk, Run deck, GitHub, Nodejs, Angular,React,AWS,

Automation services, Docker, CSS, HTML, Python, JIRA.

Liberty Mutual

Sr Python Developer May2020-April2021

Responsibilities:

* Work closely with Data Scientists and Legal Billing Auditors on data projects of varying degrees of scale for given financial firm.
* Develop system/application architecture.
* Develop maintainable/scalable, effective, defect-free source code that meets business needs and team standards.
* Prepared scripts to ensure proper data access, and reporting functions with R programming languages.
* Lead quality assurance architecture and design guide review; identify defects or discrepancies in stories and work with appropriate partners and developers to resolve them.
* Collaborate and tackle production and data integration issues, perform root cause analysis, implement solutions, and revise procedures and documentation as needed.
* Identify, review, and implement improvement opportunities (performance tuning, improvement, balancing, usability, automation).
* Formulated procedures for integration of R programming plans with data sources and delivery systems.
* Explore and develop techniques to utilize big data for Legal Data Scientists and Auditor teams.
* Provide appropriate communication to partners related to the team s work product.
* Follow Agile standard methodologies and standards.
* Implemented REST APIs using Python and Django framework.
* Developed web-based applications using Python, Django, XML, CSS, HTML, JavaScript, AngularJS, jQuery and Bootstrap.
* Designed Data Quality Framework to perform schema validation and data profiling on Spark (Pyspark)
* Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.
* Perform ETL process with help of SSIS tool to meet the business requirements.
* Unit Test Python library was used for testing many programs on python and other codes.
* Used AngularJS as the development framework to build a single-page application
* Implemented SQL Alchemy which is a python library for complete access over SQL.
* Experience in Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installing and configuring Kubernetes.
* Used several python libraries like wxPython, NumPy and matplotlib.
* Integrated server by using Flask framework, writing routes and queries to build Restful API.
* Involved in Automation Development using Selenium (Python).
* Implemented Nginx as ingress controller on Kubernetes.
* Creation of Python scripts for data access and analysis (Scripts, Data Feeds, XLS, FIXML) to aid in process and system monitoring, and reporting.
* Having work experience with CI/CD for integration and deployment purpose.
* Build the dashboard and report for existing business application with help of Tableau software.
* Used Python modules like NumPy, Matplotlib, Pandas, SciPy, wxPython, PyTables, PyQt, etc., for generating complex graphical data, creation of histograms, etc.
* Used NumPy, Matplotlib, and Pandas to generate products for major enterprises.
* Executed and written various MYSQL database queries from Python using Python-MySQL connector & MySQL dB package.
* Hands on experience in cloud formation and lambda.
* Assisted in pricing of securities including bonds and mortgages in programming domain such as C++, MTLAB and R programming.
* Worked on creation of custom Docker container images, tagging and pushing the images
* Deployed and monitored Microservices using pivotal cloud foundry, also managed domains and routes with the cloud foundry.
* Creating security groups, auto-scaling, lambda, load balances in defined virtual private connection.
* Perform validation on machine learning output from R.
* Performance Analysis and Tuning, Capacity Planning of AIX, Linux and Windows servers.
* Execution of Selenium Test cases and Reporting defects with Python.
* Web-services backend development using Python (CherryPy, Django, SQLAlchemy).
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Created a Lambda Deployment function and configured it to receive events from your S3 bucket.
* Developed and implemented R and Shiny application which showcases machine learning for business forecasting.
* Implemented monitoring and established best practices around using elastic search.
* Followed AGILE development methodology to develop the application.
* Serverless computing experience; AWS lambda preferred.
* Used Test driven approach (TDD) for developing services required for the application.

Environment: Python 2.x/3.x, Django 1.9, HTML5, CSS3, JavaScript, ETL, JQuery, MySQL, AWS, MongoDB, Angular JS, JIRA, RabbitMQ, Selenium, Tableau, Web Services, CI/CD, Jenkins, Git, Linux.

​Duke Energy, Charlotte, NC Feb 2019 – Feb 2020

Sr. Python Developer

Responsibilities:

* Involved in software development life cycle (SDLC) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
* Actively involved in developing the methods for Create, Read, Update and Delete (CRUD) in Active Record.
* Developed entire frontend and backend modules using Python on Django Web Framework by implementing MVC architecture.
* Rewrite existing Python/Flask module to deliver certain format of data. Created script in python for calling REST APIs.
* Deployed Django web application in Apache webserver and Carpathia cloud web deployment.
* Perform ETL operation to covert the Python scripts into SQL script for business purpose.
* Involved in designing user interactive web pages as the front-end part of the web application using various web technologies HTML/HTML5, CSS/CSS3, JavaScript, jQuery, Node Js, React JS, DOM, AJAX, XML, XHTML, JSON, SVG, Bootstrap, and Angular JS etc.
* Developed Python code to gather the data from HBase and designs the solution to implement using PySpark.
* Experience with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Developed PySpark code to mimic the transformations performed in the on-premise environment.
* Used Celery as task queue and RabbitMQ, Redis as messaging broker to execute asynchronous tasks.
* Having hands on experience with tableau software to build the report, dashboard of existing application
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Use PowerBI tool to create enterprise gateway to automatically refresh the existing application report.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL db package to retrieve information.
* Generated Python Django Forms to record data of online users.
* Developed Wrapper in Python for instantiating multi-threaded application.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS).
* Implemented monitoring and established best practices around using elastic search.
* 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.
* Deployed and administered many MySQL RDS instances, PostgreSQL RDS instance and MSSQL database on EC2 server.
* Used PostgreSQL for storing and retrieving JSON format data that need to be displayed on Google maps API. Good knowledge in AngularJS and Responsive Design.
* Designed and implemented a tool called Netcong (Network configuration) which automatically configures network switches by parsing XML files.
* Managed code versioning with GitHub, Bit Bucket and deployment to staging and production servers.
* 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 2.7, Django 1.7, HTML5, AWS, CSS, XML, MySQL, JavaScript, jQuery, Docker, CSS Bootstrap, PySpark, RESTful, MS SQL Server, Tableau, MongoDB, Elastic Search, PowerBI, Snowflake, NodeJS, ETL, Ubuntu server, Windows 12 Server, Amazon S3, Jenkins, Map Box, GitHub, Bit Bucket, Linux, and Windows.

Spectrum Health, Grand Rapids, MI Feb 2018 – Jan 2019

Python Developer

Responsibilities:

* Requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.
* Used Django/Python web-framework to develop application.
* Developed Scripting based frameworks on python using Linux Platform used by embedded engineers for automating mundane tasks.
* Write terraform scripts for CloudWatch Alerts.
* Built some frameworks which allow writing scripts in python, which will send and receive data over serial port to communicate with device firmware.
* Developed some test scripts in Python that are used to test embedded systems via their debug UART port.
* Used Perl for creating tools to help integrate and generate C code from Excel Input or XML files.
* Extensively used Python requests urllib and urllib2 module to call web services.
* Worked on Python OpenStack APIs and used NumPy for Numerical analysis.
* Worked on real time in memory distributed systems.
* Used MVC framework to build modular and amp maintainable applications.
* Designed and developed transactions and persistence layers to save/retrieve/modify data for application functionalities using Django and PostgreSQL.
* Involved in building database Model and Views utilizing Python, in order to build an interactive web-based solution.
* Developed UI screens using HTML, CSS, AJAX, JavaScript and JQuery
* Done Integration of user-facing elements developed by a front-end developer with server-side logic.
* Work with CI/CD to automate the software delivery process.
* Having hands on experience with PowerBI tool for visualization purpose and building reports.
* Developed and tested many features for dashboard, created using Bootstrap, CSS, and JavaScript.
* Experience in using Pylint to check for errors in Python code, tries to enforce coding standards and get details about code complexity.
* Involved in problem solving with algorithm and data structures using Python.
* Used AWS for application deployment and configuration.
* Designed and implemented test procedures for failover/ recovery scenarios.
* Created numerous reports using report lab and xlrt/xlwt python packages.
* Developed Network modules, Socket programming and Web server hosting capabilities of Python for some applications (ex. IoT devices).
* Resolved ongoing problems and accurately documented progress of Python project.
* Used agile development techniques like pair programming, test driven development (both unit tests and functional tests), continuous integration and iterative development.
* Complete software development was designed and implemented using Agile Methodology and SCRUM Process.

Environment: Python, Django, PySpark, Docker, Nodejs, NumPy, CI/CD, Amazon (AWS, SVS, EC2, S3), PostgreSQL, Pylint, JIRA, Linux, Perl Scripting, Socket programming, PowerBI, SVN.

HSBC, INDIA Oct 2015 – July 2017

Python Developer

Responsibilities:

* 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.
* Developed a fully automated continuous integration system using Git, Gerrit, Jenkins, MySQL and custom tools developed in Python and Bash.
* Involved in managing MongoDB environment from availability, performance and scalability perspectives.
* Developed Spark code using Scala and Spark-SQL for faster testing and processing of data.
* Performed Data Modelling, Data Integration, Data Warehousing and Data Analytics using Microsoft BI suite -SISS, SSAS and SQL.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL, and VMWare API calls.
* Involved in the Complete Software development life cycle (SDLC) to develop the application and Worked closely with software developers and DevOps to debug software and system problems.
* Worked on resulting reports of the application and Tableau reports.
* Worked on HTML5, CSS3, JavaScript, AngularJS, Node.JS, Git, REST API, Mongo DB, intelliJ IDEA.
* Responsible for building scalable distributed data solutions using Hadoop.
* Design and Setting up of environment of Mongo dB with shards and replica sets. (Dev/Test and Production).
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Worked very closely with designer, tightly integrating Flash into the CMS with the use of Flashvars stored in the Django models. Also created XML with Django to be used by the Flash.
* 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.
* Used HTML5, CSS3, JQUERY,EXTJS, AngularJS, and REST/SOAP API's to develop complex responsive themes and plugins.
* Also used Bootstrap as a mechanism to manage and organize the html page layout.
* Used Django configuration to manage URLs and application parameters.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL dB package.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Worked extensively with Bootstrap, Javascript, and jQuery to optimize the user experience.
* Used Selenium Library to write fully functioning test automation process that allowed the simulation of submitting different we requests from multiple browser to web application.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.

Environment: Python, HTML5, CSS3, JQuery, Angular, Restful API, MySQL, Panda, PL/SQL, UNIX, Linux

Webfosys Inc. India July 2014 – Sep 2015

Python Developer

Responsibilities:

* Designed and developed components using Python. Implemented code in python to retrieve and manipulate data.
* Profiled python code for optimization and memory management.
* Re-engineered various modules for implementing changes and creating efficient system.
* Managed large datasets using Panda data frames and MySQL and implemented configuration changes for data models.
* Designed and developed UI using HTML, XHTML, AJAX, Java Script and jQuery.
* Used Javas Script libraries like jQueryUI, datagrid, jscolor, highcharts.
* Developed the presentation layer using HTML, JSP, CSS and DHTML.
* Developed widgets for GUI using PyGtk modules of Python.
* Used Django to develop web-based application and deploy it using Jenkins.
* Used MySQL as backend database and Mysqldb of python as database connector to interact with MySQL server.
* Developed Page layouts, Navigation and presented designs and concepts to the clients and the management to review.
* Used Restful APIs to access data from different suppliers.
* Used Python and Django for creating graphics, XML processing of documents, data exchange and business logic implementation between servers.
* Used Python Data structures like sqlite3, lists, dictionaries, and tuples.
* Used several Python libraries like NumPy, Pandas and MatplotLib.
* Helped with the migration from the old server to Jira database with Python scripts for transferring and verifying the information
* Supported Apache Tomcat web server on Linux Platform.
* Used RAD 7.0 for implementing Static and Dynamic web services for consuming and providing services related to the business.
* Developed and executed User Acceptance Testing portion of test plan.
* Deployed the project into Jenkins using SVN version control system.
* Involved in writing application level code to interact with APIs, Web Services using AJAX, JSON and XML.
* Debugging Software for Bugs.
* Support the scripts configuration, testing, execution, deployment and run monitoring.
* Environment: Python, RAD 7.0, C++, Ajax, HTML Restful API, MySQL, Django, Panda, Shell Scripting, PL/SQL, SVN, Jenkins, Jira, UNIX, Linux