**Sontireddy Lokesh Reddy**

**Summary**

* 10+ Years of IT experience in Python Developer Analysis, Design, Software Development, Web Application Development. Management and Implementation of various stand alone, client-server enterprise applications.
* Experience in of Objected Oriented Concepts, Standard Template Library, Smart Pointers, Data Structures and Design patterns.
* Experience with Amazon SQS, and Amazon Web Services like EC2, Redshift and S3. Familiar with REST and AWS (Amazon Web services) in Redshift, EMR for improved efficiency of Storage and Proficient in SQL databases MySQL, Oracle and NoSQL.
* Experience in as front-end developer with React.js framework only Expertise python scripting with focus on DevOps tools, CI/CD and AWS Cloud Architecture.
* Experienced with Lambda, Secrets Manager, Dynamo DB, EC2 and other AWS services.
* Experience working on Azure Cloud services, Azure storage, Azure CLI, Azure Active Directory and Azure Service Bus.
* Experience on RDBMS like Hadoop, Big data, Cassandra, NoSQL, MongoDB
* Hands on experience with version control tools such as SVN, JIRA, GitHub, and GitLab.
* Experience in Ambari, Hive, Map Reduce, HDFS, Oozie, Python, Mongo-DB, Spark, PySpark, Snowflake.
* Experienced in NodeJS backend development with REST and GraphQL Queries.
* Used Amazon Elastic Beanstalk with Amazon EC2 to deploy project into AWS.
* Worked on AWS in Database services like Amazon Relational Database Service (RDS) and Amazon Elastic Compute Cloud (EC2).
* Good amount of experience in handling errors/exceptions and debugging issues in large scale applications.
* Experience in the development of test automation framework (Modular Driven & Data-Driven) using Selenium WebDriver from scratch.
* Worked on functions in Lambda that aggregates the data from incoming events, and then stored result data in Amazon DynamoDB.
* Experience in developing web API, RESTful API, flask framework, JSON data consumption and testing Rest API's using Postman.
* Experience ETL pipelines in and out of data warehouses using a combination of Python and Snowflakes.
* Experience HTML, Bootstrap, Scala and RESTAPI calls using the JSON and node.js.
* Good knowledge of Python and R libraries including NumPy, Pandas, SciPy, Matplotlib, Seaborn, TensorFlow.
* Experienced in developing web-based applications using Python, Django, AWS, WSGI, PostgreSQL, Redis, HTML, CSS, JavaScript, jQuery, and XML.
* Expert knowledge in front-end development using Python, Django, Node JS, JavaScript, HTML5, CSS/CSS3, Bootstrap, Ajax, JSON, jQuery, XML.
* Strong experience in DevOps Environment by enhancing Continuous Delivery and infrastructure change by using Chef, Ansible, Kubernetes, and Docker to deploy code with GIT, Jenkins.
* Experienced in code from s3 buckets using AWS Amplify, and Authentication done using Cognito.
* Familiar with Cloud Services like Amazon AWS, EC2, S3 bucket etc.
* Experienced in Spark clusters and Ajango configuring high concurrency clusters using Azure Databricks
* Worked on data processing and transformations and actions in spark by using Python (Pyspark) language.
* Experience on Python scripting, SQL Snowflake Warehousing.
* Experience on Node.js, Golang, and Java compliance application to demo the performance
* Expertise in usage of Django Framework for developing web applications.
* Experience in migration of PySpark framework into AWS Glue for enhanced processing.
* Experience a WAMP (Windows, Apache, MYSQL, Python /PHP) and LAMP (Linux, Apache, MySQL, and Python) Architecture.
* Good Experience with Django, a high-level Python Web framework
* Experience in developing as a Web/Application Developer, server-side programming and coding with analytical programming using Python, Django, React, Vue, Golang.

# Technical Skills:

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| --- | --- |
| Programming Languages | C, C++, Python 3.x, JavaScript, PHP, XML, JAVA, SQL |
| Web Technologies | HTML/HTML5, CSS/CSS3, XML, JSON and CSS Bootstrap. |
| SCM Tools | Subversion, Jenkins/Hudson, Jira, TFS, Confluence, Clear Case, GIT, GitHub, Artifactory. |
| Operating Systems | UNIX, Linux, Solaris, Windows, Mac Os, Ubuntu, DOS, VMware. |
| VersionControl Systems | CVS, SVN, GIT and GITHUB. |
| Python Frameworks | Django, Pyramid, Flask, web2Py. |
| Database | PostgreSQL, SQL Server, MYSQL, MongoDB and Oracle |
| Application Servers | Web logic, JBoss, IBM WebSphere, Apache tomcat5.5, IIS |
| Development IDE | PyCharm, Pydev Eclipse, Vim, Net beans, MS Visio, Sublime Text, Notepad++ |
| Methodologies | Agile, Scrum |
| Delivery tools | Saltstack, Chef &amp; Puppet, Ansible |
| AWS | EC2, AWS S3, Redshift, Athena, Glue |

**WORK EXPRICENCE:**

# Full stack Python Developer

**Kroger, OH Feb 2022 – Present**

# Responsibilities:

* Responsible for creating efficient design and development of responsive UI using with HTML5, CSS3, JavaScript, MEAN stack (MongoDB, Angular, and Node JS) and React JS.
* Responsible for developing Business Logic using Python on Django Web Framework for customizing the behavior and appearance of the admin site by creating admin classes for my models, tailoring the admin interface to specific project needs.
* Responsible for creating the company's internal platform called DCAE by using Python to develop and test the components.
* Responsibilities included DevOps roles, of maintaining multiple development environments built on Kubernetes clusters
* Ensured compatibility between the MATLAB version and Python environment to avoid compatibility issues, and maintain version control for both MATLAB and Python packages to ensure consistency and reliability.

Used Ansible platform to scale application on AWS cloud.

* Involved in writing java API for Amazon Lambda to manage some of the AWS services.
* Deploy docker based applications written in Python/Flask to AWS ECS, a container orchestration service.
* Utilized MATLAB Engine API for Python or MATLAB Compiler SDK to create custom interfaces and APIs that allow direct interaction and communication between MATLAB and Python scripts, enhancing workflow integration and automation.
* Contribute to the design and implementation of AWS-based solutions for data storage, processing, and analysis, leveraging PySpark for large-scale data processing.
* Deployed and managed container replicas onto a node cluster using Kubernetes.
* Deployed microservice applications in Python, with Flask, SQL Alchemy, Docker. Deployed for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Explored MATLAB's parallel computing toolbox and Python's multiprocessing or threading libraries to implement parallel processing and multithreading techniques, improving computational efficiency and scalability for parallelizable tasks.
* Developed Merge jobs in Python to extract and load data into MySQL database and Docker.
* Worked in CICD environments using Docker, and Jenkins and hands on experience using various Version Control Systems, mostly GIT, CVS and SVN.
* Developed a web application for time entry that integrated with ConnectWise's REST API using Python, Postgres, Flask.
* Developed and tested DB CRUD operations, internal- facing RESTful using Python, Django RestFul.
* Created Web apps using Django framework to implement drag/drop upload of files (using JS, CSS, and HTML)
* Deployed Strong expertise in API development using Rest, GraphQL, Web Socket, Messaging platforms.
* Developed a with performance and process enhancement of the PySpark framework.
* Developed PL/SQL store procedures for data migration and database upgrade from oracle using MYSQL.
* Developed DAO API to manage the payment information using Hadoop, Big data, Cassandra, NoSQL, MongoDBm MySQL, JDBC.
* Developed in JavaScript leading Frameworks Team like Angular.js, React.js, backbone.js, bootstrap.js, Node.Js and Projects UI Designing Team.
* Deploy docker based applications written in Python/Flask to AWS ECS, a container orchestration service.
* Developing a Good knowledge of different databases like SQL Server, MySQL and SQLite.
* Created a Python to extract and load data into MySQL database and Docker.
* Worked with AWS Lambda functions to create automatic loading data into S3 buckets and transfer them to DynamoDB.
* Developing python programs by using boto3 sdk to implement security by using AWS Cognito service.
* Development team in assessing in house apps for migration to AWS cloud-based solutions.
* Developed automated testing framework for command-line based tests on Linux using Objected Oriented Perl and for selenium-based tests using Python.
* Developed requests and support existing container security infrastructure (Docker, Kubernetes, Registry scanning, CICD).
* Developed RESTful APIs for various client service applications, providing CRUD operations
* Perform data transformations with Apache Spark (PySpark) on Databricks to write to AWS S3.
* Working extensively on REST APIs, JSON, Microservices, CI/CD, Docker containers.
* Implemented a serverless architecture using AWS Amplify, Dynamo DB, Cognito, Lambda, and API Gateway.
* Worked on to implement environment for microservices deployments and testing in Docker images.

**Environment:** Python 3.7.0/2.7, Django 2.0/1.6, HTML5, CSS, XML, Java, Tailwind, tableau, JS, jQuery, Apache, CSS Bootstrap, Mongo DB, MS SQL Server, React, T-SQL, GitHub, AWS, ETL, PySpark, flask, angular, golang.

# Sr. Python developer

**Charter Communication, CT Jun 2020 to Jan 2022**

# Responsibilities

* Responsible for accessing REST APIs using OAuth Authorization Token and storing the data in the MongoDB using NodeJS Scripts.
* Developed Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes.
* Developed presentation layer of the web applications using ASP.NET MVC, HTML, jQuery, AngularJS, CSS
* Flourished data pipeline to ingest data from different sources into Druid and Mongo DB.
* Created Python script to monitor server load performance in a production environment and horizontally scale
* Utilize MATLAB's Signal Processing Toolbox and Python's scipy.signal library to analyze and process RF signals from radar systems, implementing algorithms for filtering, modulation, demodulation, and spectral analysis to enhance signal quality and accuracy.
* Developed of unit testing using Mocha, Selenium and Jasmine for UI React, Angular, Java and Node JS.
* Work closely with our centralized data team to design and implement efficient data pipelines, utilizing AWS services such as Glue and Lambda for seamless data integration and automation.
* Developed the Restful microservices using python aiohttp and fastAPI frameworks.
* Developed Snowflake applications for various business units and assist in the migration from traditional data warehouses.
* Implemented a 'server less' architecture using API Gateway, Lambda, and Dynamo DB and deployed AWS Lambda code from Amazon S3 buckets.
* Implement automated testing frameworks and scripting solutions using MATLAB's Test Automation Framework and Python's unittest or pytest libraries to streamline RF testing processes, automate test cases, and generate comprehensive test reports for radar applications.
* Developing python programs by using boto3 to implement security by using AWS Cognito service.
* Worked DevOps methodologies and cloud infrastructure automation tools like AWS.
* Developed dynamic Django and flask web apps utilizing CSS, HTML5, Java and MySQL.
* Created a Snowflake data warehouse and performed ETL on the platform.
* Created a backend framework using Apollo and GraphQL, as well as built REST APIs in NodeJS and SQL.
* Created multiple proof-of-concepts using PySpark and deployed them on the Yarn cluster, comparing Spark's performance.
* Worked on distributed test automation execution on different environment as part of Continuous Integration Process using Selenium and Jenkins.
* Created a Configured AWS CodePipeline to deploy from GitHub to CloudFront.
* Involved in developing Python Project which is used for handling data using OOPS concepts, PANDAS.
* Design and maintain databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Worked on docker with Kubernetes to create pods for applications and implemented Kubernetes.
* Created a containerized and deployed the ETL and REST services on AWS ECS through the CI/CD Jenkins pipe.
* Created a full web stack using AWS Infrastructure (Beanstalk, multiple lambdas, Amazon Aurora.
* Created Used Python plotly, NumPy library to visualize data points using interactive charts.
* Created a Lambda Deployment function and configured it to receive events from your S3 bucket.
* Leverage MATLAB's advanced plotting and visualization capabilities, along with Python's matplotlib and seaborn libraries, to create interactive plots, radar displays, waterfall charts, and heatmaps for visualizing RF signals, spectra, Doppler shifts, and target tracking information in radar applications.
* Development using libraries like React and Re-dux and frameworks such as Spring Boot, and Angular.
* Created Enterprise DevOps Dashboard with AWS, Microsoft Azure, CI/CD, Grafana on Docker.
* Designed and developed middleware, using RESTful web services based on a centralized schema that is consumed by thousands of users.
* Implemented CI/CD pipeline to deploy docker images in Kubernetes environment.

**Environment:** Python, Django, AWS, Pandas, NumPy, Dataiku, matplotlib, Maven Jenkins, Apache, Ajango, Rest, ETL, bitbucket, groovy power bi, Golang.

# Python developer

**Cigna, CT Feb 2018 to May 2020**

# Responsibilities:

* Responsible to create a better logging mechanism using the Logging module of python.
* Created Azure pipeline for CICD.
* Designed and maintained databases using Python and developed Python based API (Restful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Implemented a VM management tool that manages and executes commands in remote based VMs in AWS, AZURE, GCP, vSphere, and Open stack.
* Developed and maintain data governance frameworks and policies to ensure the integrity, security, and privacy of our data assets.
* Collaborated with cross-functional teams to assess and mitigate data-related risks, ensuring compliance with industry regulations and company standards.
* Worked on development of SQL and stored procedures, trigger and function on Oracle.
* Developed weekly, monthly nightly job process through UNIX shell scripting.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Developed CI/CD system with Jenkins on Google's Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment.
* Created Latency metrics for the azure function.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Created Azure App insight for monitoring.

**Environment:** Python, Django, HTML, CSS, XML, Scala, Java, S3, ETL, ECR, groovy, Apache, fargate, boto3, Pandas, Power BI, SQL server, BI, Tableau, bitbucket.

# Python Consultant

**Amigos Software Solutions, Hyd, India Jan 2016 to Aug 2017**

# Responsibilities:

* Responsible with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Responsible with charts using Pandas and matplotlib.
* Written many programs to parse excel file and process many user data with data validations.
* Used Thales theorem for applying encryption and decryption of ISO standard message in Python programming.
* Utilized Python in the handling of all hits on Django, Redis, and other applications.
* Developed object-oriented programming to enhance company product management.
* Worked with extract-transform-load (ETL) processing tool for data mining, data warehousing, and data cleaning using SQL Performed Cross Validation on single holdout set to evaluate Used Python scripts.
* Used Thales theorem for applying encryption and decryption of ISO standard message in Python programming.
* Created UI using Java and HTML5. Designed and developed data management system using MySQL.
* Developed object-oriented programming to enhance company product management. **Environment:** ETL, ECS, NumPy SciPy, Pandas, AWS, Bugzilla, SVN, MS SQL, Linux, Apache, Eclipse, Java, XML, PL/SQL, Oracle 9i, Shell Scripting, HTML5/CSS, Apache, Dataiku, Golang.

# Software Developer

**Retvik IT Solutions, India June 2013 – Nov 2015**

# Responsibilities

* Responsible of web applications in Django model view control (MVC/MTV) architecture.
* Responsible post receives web hook to auto trigger Jenkins’s build pipeline.
* Developed views and templates with Python OOD to create a user-friendly Website interface.
* Image manipulation backend services for real time use as RESTful API.
* Development of Python APIs to dump the structures in the Processor at the failure point for debugging.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Design, develop and test HTML5, CSS3, Bootstrap, Java, and React that meets accessibility and web browser standards for website.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL.

**Environment:** Python, Apache, Django, HTML5, CSS, Bootstrap, jQuery, JSON, ETL, Jenkins, JavaScript, Golang.