**Sandeep kumar Epuri**

**972-413-8125**

[**sandeepskylamp@gmail.com**](mailto:sandeepskylamp@gmail.com)

[**https://www.linkedin.com/in/sandeep-k-18221a172/**](https://www.linkedin.com/in/sandeep-k-18221a172/)

**Professional Summary:**

* Over 10 years of experience as a Web/Application Developer with a deep understanding of technology trends with expertise in the core of complex technologies. Solid experience in analysis, design, and development, testing, implementation and maintenance of various web applications using Python and Django
* Experience in application development using Python, Django, HTML5, CSS, JavaScript, jQuery, Oracle, MySQL, PostgreSQL and SQLite.
* Experienced in working with various Python IDE's using PyCharm, Spyder, PyStudio, and PyDev.
* Hands on Experience with the implementation of Python libraries NumPy, SciPy, PyTables, SQL Alchemy, Matplotlib, Pandas, Beautiful Soup and urllib in various tasks.
* Strong knowledge of Object-Oriented Design and Programming concepts and Experience in Object Oriented Programming (OOP) concepts using Python, C++, Java.
* Hands on experience in Agile Methodologies, Scrum stories and sprints experience in a Python based environment.
* Working knowledge on Kubernetes to deploy scale, load balance, and manage Docker containers with multiple namespace versions.
* Experience in developing Web Services with Python programming language.
* Experience in using Design Patterns such as MVC, Singleton and frameworks such as DJANGO.
* Working experience on JSON based REST Web services and Amazon Web Services (AWS) Such as EC2, Lambda, ELB, SQS (Queuing Services), VPC and cloud watch.
* Experience in Shell Scripting, SQL Server, Unix and Linux.
* Developed consumer-based features and applications using Python, Django, HTML, Behavior Driven Development (BDD) and pair-based programming.
* Good knowledge of Apache server, Apache Server Tomcat, and Web logic.
* Experience in writing test plans, test cases, test specifications and test coverage.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL, PostgreSQL, Oracle and MongoDB
* Experienced in working with different operating systems like Windows, Ubuntu, Linux and OS.
* Experience in implementing PEP8 coding standards.
* Experienced in installing, configuring, modifying, testing and deploying applications with Apache.
* Experience in developing big data applications using Hadoop framework and its eco systems like MapReduce.
* Experience with automation/configuration management using tools like Ansible, Puppet and Chef.
* Designed and implemented Hive and Pig UDF's using Python for evaluation, filtering and storing of data.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Developed and designed e-mail marketing campaigns using HTML, JavaScript and CSS.
* Excellent interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment.

**Tools And Technologies:**

* **Coding Languages and technologies:** Python, Jquery, AngularJS, JavaScript, Numpy, Pandas, HTML5, CSS3, Elastic Search, AWS ELK, Aws lambda, Docker, Aws ECS, Kubernetes.
* **Framework Expertise:** Flask, Django, Fast API etc.
* **Additional Core Skills and Knowledge:** Rest APIs (micro services), Data Structures, Algorithms, OOPS, GraphQL API, AI and ML tools, Design Architecture, DS Formats (JSON and XML), Data Warehousing, Caching, Data Pipelines, Data Mapping, ETL Pipeline, OOPS Concepts, Microservices, Unit Testing
* **Database Skills:** NoSQL- MongoDB, My SQL, MSSQL, Oracle, and PostgreSQL, AWS DynomoDB (Strong Exposure in Architecture, Design, Storing, Enhancing).
* **Cloud Server/ DevOps:** Amazon Web Service Basics (AWS), AWS EC2, AWS S3 Load balancers, DNS, Message Queue (Kafka), Azure cloud, HDFS, Linux and Windows Servers, Elastic Search.
* **Workflow Skills, Tools, Platforms and Others:** GitLab, Bit Bucket, CI/CD, Git-hub, Postman, SDLC, Agile Methodology, MS Office, Excel.
* **Editors:** PyCharm, Sublime Text, Jupyter Notebook, Visual Studio, NetBeans.
* **Operating System:** Linux, Ubuntu, Mac OS.

**Professional Experience:**

**Cigna HealthCare, Windsor, CT Aug 22 – Till date**

**Sr. Python developer**

**Description:** Cigna Healthcare is insurance subsidiaries are major providers of medical, dental, disability, life and accident insurance and related products and services, the majority of which are offered through employers and other groups (e.g., governmental and non-governmental organizations, unions and associations).

**Responsibilities:**

* Coordinating with the business team in gathering the data requirements.
* Responsible for collecting data and managing the interchange of data between the server and the users.
* Design and developing on **application** ensuring high performances and responsiveness to requests using python from frontend UI team using GrahpQL Schema.
* Extensively worked using **python** to **automate** the manual process and deploy the code in AWS.
* Proficiency with dimensional modeling, data migration, data cleaning, data profiling and ETL process features.
* Developed frontend application with **React** **JS** components and backend with Flask API framework.
* Migration from Oracle platform within AWS to aurora/MYSQL DB.
* Developed Python and **Flask/Fast API** for the backend development and front-end application using **React**, Webpack, Redux, and PostgreSQL for the database. Worked on Django ORM module for signing complex queries
* Used **Redis** for caching, session store and message broker for distributed system.
* Involved in creating roles/ users and managing policies for IAM roles using Terraform, Cloud formation.
* Developed **REST API Integration between** multiple aws accounts using API gateway invoking lambda to update the dynamodb.
* Strongly experienced with **Github** to deploy the **microservice** application deployment process
* Developed REST API authentication &authorization using cognito for **microservice** application.
* Developed AWS Glue Jobs to do ETL workflow between data source and data stream. And used glue job to migrate the incremental/full loads data with workflows for cost effective.
* Developed Java rest API integration with springboot for microservice framework.
* Involved in AWS Glue tags like crawler, job, trigger, workflow, endpoint and ML transformations.
* Implemented SNS, SQS services with EventBridge (cloudwatch) to monitor logs.
* Developed automating python script to collect and load data into S3 bucket from Databricks account using airflow DAG.
* Designed and implemented real-time data streaming pipelines using Kafka and Python, enabling the processing of high-velocity data streams.
* Integrated Kafka with data processing frameworks like Apache Spark or Apache Flink to perform real-time analytics on streaming data.
* Used **AWS lambda** for s3 event, FTP etc and SQS, SNS for message queing and notification for consumers.
* Responsible for configuration and maintenance of Amazon Virtual Private Cloud (VPC) resources (e.g., subnets security groups, permissions policies, etc.) and make connections between different zones, blocking suspicious IP/subnets via ACL.
* Developed API with Kakfa Data streaming for producer and consumer mechanism.
* Manage, Modify, and Deploy existing templates CloudFormation and JSON templates and configuration changes.
* Implemented AWS security, privacy, performance, and monitoring solutions, including automated responses.
* Involved in TDD (Test-Driven Development) to design, develop the test cases for every small functionality of an application to make sure test case successfully run from refactor (failed code).
* Built application and database servers using AWS EC2 and RDS for Oracle DB.
* Used AWS Command Line Interface (CLI) to automate backup to S3 buckets, file transfers to and from Amazon S3 and created nightly AMIs for production servers as backup.
* Created alarms, monitors and notifications for EC2 hosts in CloudWatch.
* Used JSON based and **RESTful API** for information extraction.
* Build the real-time data pipeline using Kakfa integrating with aparche spark and elastic search stream processing.
* Worked on Jenkins for Continuous Integration and end-to-end automation for all build and deployments.
* Developed spark application in python(pyspark)on distributed environment to load numbers of CSV files with different schema in hive ORC Tables. And involved in EMR to process high volume of data in apache spark.
* Terraform implementation of infrastructure provisioning, Versioning, Environment Reproducibility.
* Solid Unix/Linux command line implementation to trouble shoot the technical issues.
* Design, development and implementation of ETL process with low-latency, availability and performant application.
* Integrating Apache Kakfa and Mongodb with python scripting.
* Implemented terraform code to set up infrastructure in AWS region.
* Perform the unit testing and coordinate the code deployment into QA environments.

**Environment:** Python 3.8, Microservices, RESTful services, ETL, Airflow, Oracle SQL, DynamoDB, Pytest, Github, Jenkins, PyCharm, pyspark, Kafka, Microsoft Visual Code, Linux, Shell Scripting, aws Lambda, SQS, SNS etc.

**Verizon, Dallas, TX Aug-21 – Jul-22**

**Sr. Python Developer**

**Description:** Verizon is telecom company, providing 5G services to customer with multiple vendor to deploy the VNF, developed customized microservices application.

**Responsibilities:**

* Coordinated with Cloud Engineers to analyse and design all aspects of AWS environments and topologies.
* Assessed automation opportunities from an architectural perspective and prioritize proposed solutions.
* Built Database models, views and APIs using Python for interactive web-based solutions.
* Involved in Web-services backend development using Python (CherryPy, Django, SQLAlchemy).
* Used Pandas library for statistical Analysis. Worked on Python Open stack API.
* Used PyUnit the Python unit test framework, for all Python applications.
* Wrote Python modules to view and connect the Apache Cassandra instance.
* Setup and built AWS infrastructure various resources, VPC EC2, S3, IAM, SNS, EBS, Security Group, Auto Scaling, and RDS in CloudFormation JSON templates.
* Involved AWS glue jobs with apache spark environment.
* Developed data ingestion using kakfa from various database source for streaming and monitoring logs.
* Implemented kakfa producer and consumer applications on kakfa clister setup with the help of zookeeper
* Worked on implementing CURD operations using Marklogic NoSQL REST API Services
* Setup and managed windows servers on AWS platform using IAM, Security Groups, EC2, EBS, RDS.
* Setup databases on Amazon RDS and EC2 Instances as per the requirement.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Used spring kakfa api calls to process the message smoothly on kakfa cluster setup.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Created S3 buckets in the AWS environment to store files, sometimes which are required to serve static content for a web application.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Developed responsive UI using HTML5/CSS3, AngularJS and JavaScript.
* Experience in building isomorphic applications using React.js and Redux with GraphQL on server side.
* Developed and executed Test Plans, Test scenarios, Test Cases, Test Scripts for Manual and Automation Testing.
* Involved in debugging and troubleshooting issues and fixed bugs in SWIM application which is the main source of data for internal and external customers and service teams.
* Used terraform, ansible for all infrastructure and configure changes in aws.
* Created various performance metrics and configured notifications using CloudWatch and SNS.
* Involved in building isomorphic applications using React.js and Redux with GraphQL on server side.
* Exported/Imported data between different data sources using SQL Server Management Studio and Oracle.
* Utilized Agile, DevOps CI/CD and Lean best practices to develop, deploy, and operate the target solutions efficiently and modularly.
* Written complex SQL queries for data validation based on ETL mapping specifications using Informatica for Oracle database.
* Worked in a fast pace agile environment (2 weeks of sprint), attended sprint planning on the beginning of each sprint and retro at the end of each sprint and in the middle, we had mid sprint review/product backlog review (PBR) meeting to go over to our backlog and prioritized User stories and estimated points.

**Environment:** Python 3.8, Git, SVN, GitHub, Kakfa, Lambda, DynamoDB, Redshift, EC2, IAM, S3, CloudWatch, Django 1.5, MySQL, Angular.JS, Pandas, Flash, PyUnit, Open Stack, HTML, pyspark, CSS, JQuery, Jenkins, Nexus, JavaScript, Apache, Jira, Linux, Git, Cassandra, Windows, Linux, SSMS, Informatica, Oracle

**Cigna HealthCare, Windsor, CT Jul 20 – Jul 21**

**Sr. Python Developer**

**Responsibilities:**

* Coordinating with the business team in gathering the data requirements.
* Responsible for collecting data and managing the interchange of data between the server and the users.
* Design and developing on server-side logic, ensuring high performances and responsiveness to requests from
* Front-end.
* Developed automating script to collect and load data into MS sql server.
* Responsible for integrating the front-end elements built by co-workers into the application.
* Developing reusable, Testable, and efficient code for ETL process.
* Migration of data from on premise to aws cloud with Glue Jobs.
* Had knowledge on kibana and elastic search to identify yhe kakfa message failure scenario
* Design, development and implementation of ETL process with low-latency, availability and performant application.
* Integrating Apache Kakfa and Mongodb with python scripting.
* Involving in shell scripts to implement sql queries for data migration & batch processing.
* Support the technical and business check-out during production implementation.
* Perform the unit testing and coordinate the code deployment into QA environments.

**Environment:** Python 3.8, Django Framework 1.3, Flask Framework, ETL, Oracle SQL, DynamoDB, HTTPD web server. Pytest, Bitbucket, Apache Kafka, Jenkins, HTML5/CSS, PyCharm, pyspark, Microsoft Visual Code, Linux, Shell Scripting, RALLY.

**DTCC, Jersey City, NJ Marc 19- Jun 20**

**Sr. Python developer**

**Description:** The Depository Trust and Clearing Corporation (“DTCC”). DTCC is involved in the business of providing clearing, settlement and information services for equities, corporate and municipal bonds, government and mortgage-backed securities, money market instruments and over-the-counter derivatives. In addition, DTCC is a leading processor of mutual funds and insurance transaction, linking funds and carriers with their distribution networks.

**Responsibilities:**

* Designed and developed the server module and resolved issues and responsible for its enhancements.
* Have been involved with investment banking domain deals with DTCC.
* Developed Python and Django for the backend development and front-end application using AngularJS, gulp, Bower components and DynamoDB for the database. Worked on Django ORM module for signing complex queries.
* Defined different Django API profiling techniques for faster rendering information.
* Later Migrated applications from Django to Flask and NoSQL (DynamoDB) to SQL(Snowflake)
* Used Angular JS in components like JSX, creating angular components, Virtual DOM, Angular Props, Lifecycle methods.
* Developed Restful Micro Services using Flask and Django and deployed on AWS servers using EBS and EC2.
* Used Jenkins for continuous integration and delivery platform over GIT.
* Involved in the CI/CD pipeline management for managing the weekly releases.
* Worked on Jira for managing the tasks and improving the individual performance.
* Making recommendations to the team in terms of appropriate testing techniques, shared testing tasks.

**Environment:** Python 3.6, Django Framework 1.3, Flask Framework, AngularJS, CSS, DynamoDB, HTTPD web server. Pytest, Bitbucket, Jenkins, HTML5/CSS, Snowflake, pyspark, Amazon Web Service (AWS), S3, EC2, PyCharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA.

**Comcast, Mt Laurel, NJ Jun 16- Mar 19**

**Sr. Python developer**

**Description:** This project will provide Versa SDWAN platform support for enterprise customers of comcast. This includes platform automation using Devops framework, deployment of SDWAN Head-end applications on the cloud, network platform & certification and production support of SDWAN.

**Responsibilities:**

* Designed and developed the server module and resolved issues and responsible for its enhancements.
* Developed Python and Django for the backend development and front-end application using React, Webpack, Redux, and PostgreSQL for the database. Worked on Django ORM module for signing complex queries.
* Defined different Django API profiling techniques for faster rendering information.
* Implemented various Validation Controls for form validation and implemented custom validation controls using Object Oriented JavaScript.
* Developed views and templates with Django view controller and template to create a user-friendly website interface.
* Worked on Jira for managing the tasks and improving the individual performance.

**Environment:** Python 2.6/2.7, JavaScript, Django Framework 1.3, GitHub, PostgreSQL, PyCharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA.

**Max Health Care, India Jun 12 - Jan 15**

**Python Developer**

**Description:**  Max health Care is a hospital chain based in New Delhi, India with 14 hospitals across North India. The Institute is a joint venture between Max India and Life Healthcare.

**Responsibilities:**

* Created APIs, database Model and Views Utilization Python in order to build responsive web page application.
* Migrated the Django database from SQLite3 to PostgreSQL with complete data integrity.
* Performed Unit testing, Integration Testing, GUI and web application testing using Unit Test Module.
* Implemented and enhanced CRUD operations for the applications using the MVC (Model View Controller) architecture of Django framework and Python conducting code reviews.

**Environment:** Python 2.6, Django web framework, Java, MySQL.

**Education:**

* Bachelor of Technology in Electrical & Electronics Engineering, JNTUH, India in 2012.
* Master of Science in Information Technology\ San Francisco Bay University, USA in 2016.