**ANUDEEP REDDY Email:** [**anudeeprg01@gmail.com**](mailto:anudeeprg01@gmail.com)

**Contact : (401) 200-8917**

**Sr. Python Developer / Database developer**

**PROFESSIONAL SUMMARY:**

* Over 10+ years of IT experience in designing, developing, and implementing enterprise applications using Python, Django, and various technologies.
* Proficient in developing web applications with Django, Flask, and RESTful APIs, utilizing Python libraries such as Beautiful Soup, NumPy, Pandas, and Flask libraries.
* Skilled in front-end development using ReactJS, NodeJS, Bootstrap, JavaScript, HTML, CSS, JSON and jQuery with knowledge of W3C standards.
* Proficient in developing multi-threaded web services using Cherry PY & bottle PY framework.
* Strong understanding of DevOps practices, including continuous integration and deployment (CI/CD) with tools like Jenkins and Heroku.
* Knowledgeable in containerization with Docker, configuration management with SaltStack and Puppet, and working with queueing architectures like RabbitMQ.
* Experienced in developing applications using Java API, Swing, HTML 5, Flex, JavaScript, CSS3, jQuery, JDBC, JSF, JMS, and XML.
* Proficient in leveraging Azure cloud services, such as Azure Storage, Azure Active Directory, and Azure Service Bus, for scalable and secure application deployments.
* Proficient in using Airflow technology for orchestrating complex workflows and data pipelines.
* Experienced in NoSQL technologies like MongoDB, Couch DB Cassandra, Redis and relational databases like Oracle, SQLite, PostgreSQL, and MySQL databases .
* Integrated Tableau with various data sources including databases, APIs, and data warehouses to extract, transform, and load data for visualization purposes.
* Strong experience with RESTful services, JSON, DOM, and asynchronous event-programming model.
* Experienced with automated deployment tools like Git and version control systems such as Git.
* Experience building cloud-native applications in cloud environments such as AWS and Azure.

**Technical Skills:**

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| Operating systems | Windows, Linux, MAC, UNIX. |
| Languages | Python 3.3/2.7/2.4, Java, C, C++, Perl, Ruby. |
| Scripting languages | CSS, AJAX, Java Script, jQuery, PHP, Shell Scripting. |
| Markup languages | HTML, CSS, Java Script, XML, JSON. |
| Servers | Apache Tomcat, IBM Web sphere, open stock, Restful web services. |
| Databases | My SQL, No SQL, Apache Cassandra, Apache Airflow ,MongoDB, PostgreSQL, MS-SQL, Oracle (10G, 11G). |
| IDEs/ Tools | PY cham, Eclipse, PG Admin, Sub Lime Text, Tableau. |
| Frame Works | Django, Flask, Python, Pyramid, Cherry PY, PySpark |
| Methodologies & tools | Object Oriented Programming, UML, Agile Scrum |
| MS office tools | Microsoft Excel (Super user), Microsoft word, Microsoft PowerPoint, PPT Plex |

**Education:**

* Master’s Degree in Computer science from Texas A&M University-Commerce, Texas, USA - 2016

**Professional Experience:**

**MD THINK Remote Aug 2019 to till date**

**Role: Python Developer**

**Responsibilities:**

* Developed web applications and RESTful APIs using Python and Django, focusing on UI presentation layer with HTML5, CSS, Bootstrap, and React.
* Wrote Python routines to log into the websites and fetch data for selected options. Used Python modules such as requests, urllib, urllib2 for web crawling.
* Utilized Docker and Kubernetes to containerize and orchestrate microservices.
* Worked in using React JS components, Forms, Events, Keys, Router, Animations and Flux concept.
* Developed and designed automation framework using Python and Shell scripting.
* Worked with PySpark MLlib for machine learning tasks, including feature extraction, model training, and evaluation.
* Integrated DevOps practices with CI/CD tools like Jenkins and automated deployment tools like Git.
* Hands-on experience in designing and implementing Snowflake data models, including tables, views, and materialized views.
* Designed and implemented data pipelines and ETL workflows using Apache Airflow to automate data processing tasks.
* Collaborated with data engineers and data scientists to architect scalable and efficient data pipelines for big data processing.
* Led the migration of legacy ETL processes to Airflow, resulting in improved performance and maintainability.
* Created and optimized SQL queries and data models for databases like PostgreSQL and MySQL.
* Utilized Tableau for data visualization and reporting, creating interactive dashboards and visual representations of complex datasets to provide meaningful insights to stakeholders.
* Integrated DevOps practices with CI/CD tools like Jenkins and automated deployment tools like Git.
* Worked with cloud platforms like Amazon AWS and Google AppEngine, deploying and managing applications and services.
* Strong experience in software development life cycle (SDLC) and agile methodologies
* Performed Unit testing, Integration Testing, web application testing using pytest framework.
* Responsible for debugging the project monitored on JIRA (Agile).
* Proficient in version control systems like Git and deployment using platforms like Heroku.
* Extensive experience with Linux and UNIX administration, managing servers, and troubleshooting issues.

**Environment**: Python 2.7, 3.4, Django 1.9, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, Backbone JS, jQuery, CSS Bootstrap, AWS, Mongo DB,Microservices, AirFlow, MS SQL Server, T-SQL, JavaScript, Eclipse, Git, GitHub, UNIX, Shell Scripting,Pyspark, SnowFlake, Tableau, JIRA, Git.

**United Airlines, Chicago,IL.**

**Role:** **Python Developer April 2018 to July 2019**

**Responsibilities:**

* Built interactive web-based solutions, using python, Django and ReactJS.
* Designed the front-end application using HTML, CSS, AJAX, JSON and jQuery.
* Developed backend functionality using Python and Django, leveraging Active Records for efficient data processing.
* Implemented secure web services for seamless client-server communication.
* Designed and optimized databases for microservices, utilizing technologies like PostgreSQL, MongoDB, and Amazon Aurora to handle data persistence and scalability requirements.
* Integrated Airflow technology into existing data pipelines, optimizing data processing and scheduling tasks.
* Validated the data flow from Source to Target tables by verifying the mappings and transformations in ETL Tool, AbInitio.
* Developed Python modules for CRUD operations in MongoDB and performed mathematical operations using Python libraries.
* Utilized Amazon Web Services (AWS) to deploy and manage Airflow instances, ensuring high availability and scalability.
* Automated the cloud deployments using ansible, Python and AWS Cloud Formation Templates.
* Deployed and configured elastic load balancers, managed scalable and fault-tolerant systems on AWS.
* Involved in designing and deploying various applications utilizing almost the entire AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling.
* Performed Unit testing, Integration Testing, GUI, and web application testing using Spec.
* Utilized Puppet and Git for automated deployment and version control.
* Deployed cloud-native applications on AWS.

**Environment**: Python 3.4, 2.7, Java 1.7, Django 1.9/1.7, HTML5, CSS3, XML, JSON, MySQL, AirFlow, Tableau, JavaScript, Bootstrap, Puppet, Postgre SQL, Amazon s3, Mongo DB, Elastic search, Git, GitHub, Linux, Amazon Web Services (AWS),Microservices.

**Mayo Clinic, Rochester, MN. Jan 2017 to March 2018**

**Role: Python Developer**

**Responsibilities:**

* Responsible for designing, developing, deploying, and maintaining the web applications using Python, Django and MySQL.
* Designed database models and integrated Python scripts for data manipulation.
* Collaborated with cross-functional teams to gather requirements and design data processing workflows.
* Collaborated with the UI team to create user-friendly interfaces with HTML, CSS, and JavaScript.
* Used Azure Container Services with Kubernetes for Orchestrating the servers.
* Utilized Pandas library for statistical analysis.
* Created Git repository and added the project to GitHub.
* Experience in using containers like Docker.
* Involved in creating and extracting data from database using SQL Queries, PL/SQL on Oracle database.
* Trained extensively in agile methodologies and implemented by participating in scrum standups, Kanban mode, discussing and implementing requirements with clients.

**Environment**: Python2.7,3.3, Django 1.4, PYQT, Pandas, Kubernetes, HTML, CSS, Apache HTTP, JSON, Restful API’s, XML, JavaScript, OOD, Shell Scripting, GITHUB, MYSQL, JIRA, RUBY.

**Centene Corporation, St. Louis, Missouri. Aug 2016 to Jan 2017**

**Role: Python Developer**

**Responsibilities:**

* Involved in data analysis using Python and handling the ad-hoc requests as per requirement.
* Worked on Restful APIs to access the third-party data for the internal analysis and statistical representation of data.
* Developed entire frontend and backend modules using Python on Django Web Framework on MySQL.
* Designed and developed data management system using MySQL. Built application logic using Python 2.7.
* Handled potential points of failure (database, communication points and file system errors) through error handling and communication of failure.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Improved performance by using more modularized approach and using more in-built methods.
* Created database using MySQL, wrote several queries to extract/store data.

**Environment**: python, DjangoMySQL, AJAX, HTML,CSS, Bootstraps, Git.

**Client: Nevonex solutions, Hyderabad, India.**

**Role: Program Analyst / Python Developer June 2011 to Jan 2014**

**Responsibilities:**

* Wrote script or program to automate analysis tools to streamlining the evaluation of initial data for integrity.
* Developed large-scale enterprise web applications using Python and Django.
* Built application and program to streamline the cavity development and process andx generate documentation from the design.
* Designed and developed the UI of the website using HTML, AJAX, CSS, and JavaScript and handled databases using MySQL.
* Wrote python scripts to parse XML documents and load the data in database.
* Migrating on-prem ETLs from MS SQL server to Azure Cloud using Azure Data Factory and Databricks
* Designed a python script to load transformed data into cloud services (AWS, Azure, and GCP ).
* Used jQuery for all client-side Java script manipulation.
* Responsible for debugging and troubleshooting the web application.
* Utilized Git for version control and automated deployment.
* Languageto create a user-friendly website interface.

**Environment**: Python, Django, MySQL, Linux, HTML, XHTML, CSS, AJAX, Bugzilla, Azure, JavaScript, Apache Web Server, Git.