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**Professional Summary**:

Sr. Python developer with 8+ years of IT Experience developing web applications implementing MVC architecture using Django, Flask framework(s) with major focus on Python ORM libraries, SQL Alchemy, and integrating Python with AWS, Azure, OpenStack, CICD, Configuration Management, along with using various tools like **Docker, Kubernetes, Ansible, Chef, Jenkins, Git, Maven**.

* Strong in application development using **PYTHON, Django, HTML5, CSS, JavaScript, jQuery, Oracle, MySQL, PostgreSQL and SQLite, Angular, PostgreSQL, ZODB, Key Value Stores, Couchdb, Couchbase, Linux, Nginx, Varnish, ReactJS.**
* Expert level of working experience with various Python IDE's using **PyCharm, PyScripter, Spyder, PyStudio, and PyDev**.
* Good knowledge about frameworks such as **Bootstrap** and Foundation.
* Extensively used SQL, Numpy, Pandas, and Spark for Data Analysis and Model building, Cognitive Design, **deploying and operating highly available, scalable and fault-tolerant systems using Amazon Web Services (AWS).**
* Hands on Experienced in **OpenShift** platform in managing **Docker Containers, Kubernetes Clusters**, and **Mesos** and implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure and created **Jenkins jobs** to deploy applications to **Kubernetes Cluster**.
* Architected **Jenkins build pipelines** in various Linux environments like **RHEL, Centos** and **Windows** to build and deploy **Java applications**.
* Experienced in Using **Jenkins pipelines** to drive all **Microservices** builds out to the **Docker registry** and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Implemented & maintained the branching and build/release strategies using **SCM** tools **GIT, Subversion, Bitbucket** and also experienced in **migrating GIT repositories to AWS**.
* Experienced in Using Jenkins pipelines to drive all **Microservices** builds out to the **Docker registry** and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Experience in enhancing and deploying the **ETL** Packages from development server to production server.
* Set up **Kubernetes** (k8s) **Clusters** for running **microservices** and pushed **microservices** into production with **Kubernetes** backed Infrastructure. Development of automation of Kubernetes clusters via playbooks in Ansible.
* Used **Ansible, Chef, Jenkins, Git**, for implementing Continuous Integration from scratch and optimize the Continuous Integration using **Jenkins** and troubleshoot the deployment build issues.
* Developed the required **XML** Schema documents and implemented the framework for parsing **XML** documents.
* Implemented 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++.**
* Integrated Python with Big Data and Analytics based on **Hadoop, Spark** and No-SQL databases like **HBase and MongoDB**.
* Working experience in **Agile** Methodologies, Scrum stories and sprints experience in a Python based environment.
* Developed Web Services with Python programming language.
* Used Design Patterns such as **MVC, Singleton** and frameworks **DJANGO**.
* Good knowledge in writing Subqueries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database.
* Strong Knowledge on Rest API and **JSON Parsing, jQuery and Angular JS**
* Good knowledge 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.
* Involved on front-end frameworks like CSS Bootstrap.
* Have good experience on **NoSQL databases like Cassandra and Mongo DB**& SQL databases like
* MySQL/Postgres SQL, SQLite3.
* Knowledge in working with continuous deployment using **Heroku** and **Jenkins.**
* Experience in developing applications using **Amazon Web Services like EC2, Virtual private clouds (VPCs**), **Storage models (EBS, S3, and instance storage), Elastic Load balancer ELBs**.
* Strong development experience on **Linux** based operating systems (**Debain, CentOS, RedHat** and **Ubuntu).**
* Familiar with **REST** and **SOAP Web services**.
* Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on **MongoDB, MySQL** and **PostgreSQL** database.

**Technical Skills:**

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| --- | --- |
| Frameworks | Django, Flask, Zope, PyJamas, Jython, Struts and CSS Bootstrap. |
| Web Technologies | HTML, CSS, Java Script, JQuery, AJAX, XML, AngularJS, NodeJS. |
| Programming Languages | Python, Java, C/C++, PERL, SQL and PL/SQL. |
| Scripting languages | CSS, AJAX, Java Script, JQuery, PHP, PowerShell Scripting. |
| Application servers | Apache Tomcat, Nginix, JBoss, WebLogic, WebSphere. |
| Databases | Oracle (9i, 10g, 11g), My SQL, Apache Cassandra, MongoDB. |
| IDE’s/ Development Tools | NetBeans, Eclipse, PyCharm, PyScripter, PyStudio, and Sublime Text. |
| Operating Systems | Windows, Red hat Linux 4.x/5.x/6.x, MAC OSX, and Unix. |
| Protocols | TCP/IP, HTTP/HTTPS, SOAP, SMTP. |
| Testing Tools | Selenium, Bugzilla, Crucible and JIRA. |
| Methodologies | Agile, Scrum and Waterfall. |

**Education:**

Master’s in Computer Information Systems. - 2018

Bachelor’s in Computer Science. - 2013

**Professional Experience:**

**Client: Morgan Stanley, NYC April’ 2022- Present**

**Role: Python developer with Site Reliability**

**Description:**Worked as a Python Developer in a Linux environment to Run the batch jobs and

visualize the data of Batch run logs, data and reports over the Flask app engine connected to the

SQL, Sybase Databases for many different environments on servers running parallel. And

creating the YAML config files to schedule the build on Jenkin build.

**Responsibilities:**

* Worked on the Design and development of the HTML Forms, connecting to the Flask app.
* Designed the Templates to connect with e Flask app with Different pages and menu items with forms and Loading an refresh buttons on different environments configured internally.
* Developed the Internal Flask app connecting to the SQL, Sybase Databases that can run on the different environments by configuring the environment Variables.
* Used PowerShell scripts to enable the DB permissions in different environments to read write monitor the data sources.
* Used the Linux commands create logs, load logs and config logs with a range of memory and schedule the batch run.
* Developed interactive page for the user to request the data and view the reports, status of the Batch jobs that run in the backend Linux environment.
* Developed the UI to check the logs of the Batch jobs in the Linux using Flask engine.
* Involved in the working on the tracking Logs for the Batch jobs are running on the Linux environment and connected the functionality on the Flask app.
* Worked on the Production issues to resolve the Database record run and stopped and debug on Logs and rerun the jobs by fixing.
* Integrated the user Dashboard to bring the data in recon files from Prometheus port to Grafana, Customizing and creating the Splunk Dashboards using Splunk API’s.
* Used pandas and data manipulation to visualize the data from different sources to the Dashboard.
* Using Bitbucket with Source tree as Version control as a part of the CI/CD operations on the Jenkins builds
* Involved in Writing the SQL queries to SQL view, data functions as per the daily user requirement and grant access over the service now portal to the user tickets.

**Environment: UI, Python, pandas, Linux, PowerShell, SQL, Sybase, Jenkins, Bitbucket, Source Tree, Prometheus, Grafana.**

**Client: Exxon Mobil, TX. Nov’ 2021– Feb’ 2022**

**Role: Sr. Python developer with Azure Devops**

**Description:** Worked as a Sr. Python Developer in a Red-Hat Azure DevOps environment to resolve to troubleshoot the ServiceNow APIs connected with the UI built on top of Angular and backend Database and Metadata. Also worked on the Machine learning Implementation on the schema tables to convert to the datasets, which are scheduled to run in Airflow Dag’s.

**Responsibilities:**

* Worked with Frontend developers to give the improvements on the frontend **Angular 7, 8,9in** order to get the proper payloads for the backend python API and changes in the API gateway.
* Have an excellent understanding on the **UI components and Directives** in Angular that connect the **back end data pipelines.**
* Created forms from **Angular** fronted connecting the **API gateway** and python api service to generate operations after the submit button.
* Worked closely with the frontend team to give changes for the **AD groups** that are connected to the editable drop downs.
* Expert level of working experience with various Python IDE's using **PyCharm, PyScripter, Spyder, PyStudio, and PyDev**.
* Experience in building data **RESTful APIs** to consume analytic model output.
* Creating and maintaining **containers** for **micro-services.**
* Extensively worked on ServiceNow **API** on top of **Python** and frontend in **Angular** connecting the **Snowflake database** and **PostgreSQL** to create schemas and grant requests to access data and some other operations to be performed in a automated manner.
* Worked on creating **Snowflake Schemas, Tables** and granting roles and writing Native SQL queries as per the requests.
* Build and Configured and ML based application to convert the Snowflake schema Tables into **pandas datasets.**
* Containerized the Application to run CI/CD operations in a **Kubernetes Pods** and worked with cross teams to stabilize the **Pod** operations. Created the **Aro-namespace** for the applications under one category.
* Performed the **Gitflow** as a part of CI/CD operations, adopting branching strategy.
* Created numbers on **Airflow DAG’s** for both the **API’**s and schedule to run.
* Worked on **Documentation** the application workflow from the scratch.
* Install and utilized database tools to connect the application with **MySQL, PostgreSQL** and oracle databases.

**Environment: Python, API’s, Azure Dev-Ops, Red-Hat, Snowflake, Sql, Postgre, Kubernetes, Pod, Airflow Dag’s, PySpark, Spark, Numpy, Pandas, Data Frame, Git.**

**Client: Lipscomb University. Nov’ 2020– Nov’ 2021**

**Role: Sr. Python developer with AWS**

**Description:** Working at Lipscomb University as a Senior Python developer. Work on the Existing Python application to utilize AWS services and Dockerize, My Role is to stabilize and optimize the application and migrate to AWS Cloud platform and create and maintain docker containers and automate using Jenkin jobs, also to build a same feature application for another location. Debug and push the process to high level Performance.

**Responsibilities:**

* Build and maintain a new Integration of the project that involves Making API calls and setting up the endpoints to campuses at two different locations. This consumes data from the interface and runs an API call to feed the interface.
* Experience in building data APIs to consume analytic model output.
* Creating and maintaining containers for micro-services.
* Install and utilized database tools to connect the application with MySQL, PostgreSQL and oracle databases.
* Create and schedule the Jenkin jobs for the existing clusters to automate the processes.
* Follow gitflow to deploy the changes and push the code to the production environment.
* Create and Maintain Git repos and Cron jobs for the build and deployment of API’s Built on top of Python in Docker Container.
* Responsible for creating Docker file for building Docker Images, and write python script to build and push Docker images in Docker Hub.
* Working experience on docker-compose.yaml file templates to deploy images in Docker containers.
* Experienced in writing cloudformation templates to create and deploy ECR Repos.
* Create EC2 instance and set up the lambda triggers using lambda functions. Utilizing the s3 bucket for storage.
* Experience in writing python modules using Numpy and pandas to delete or apply conditions on columns and rows in a csv file.
* Debug and troubleshoot Api’s behavior and response. Designed, wrote and maintained systems (Python) for administering GIT.
* Performed Unit testing periodically.
* Work with product development to resolve build-related issues in all projects.

**Environment: Python, API’s, AWS,EC2,ECR REPOS, Cloud formation templates, S3 Lambda functions, PySpark, Spark, Numpy, Pandas, Docker, Jenkins, Docker image, Docker Container, Data Frame, Git.**

**Client: Cox Media Group, Atlanta, GA. Feb’ 2020– Nov’ 2020**

**Role: Sr. Python developer with AWS.**

**Description:** Actively involved in developing an ETL Infrastructure to extract and validate click stream data from various vendors such as Google, Facebook, Microsoft, Yext, BirdEye, Eltoro.etc, using API’s on top of Python. Developed and maintained data pipelines which process the data and make it available in the cloud for data analysis and front-end applications to generate reports.

**Responsibilities:**

* Developed API’s from the scratch and maintained the Architecture.
* Worked on developing and documenting Google API’S Google Analytics, Google DFP, Google **Adwords, Google DV360, Facebook API, Microsoft – Bing Ads API and other 10 API’s like Yext, BirdEye, Eltoro, Nativo** etc.
* Have deep understanding on Api dashboards, use cases of API’s.
* Involved in writing Python modules for each task from assigning user till uploading data on S3 buckets.
* Involved in migrating the project to AWS cloud from on prem.
* Migrated the code infrastructure to **AWS,** schedule and run number of ec2 instances as everyday tasks.
* Involved in the process of building ETL pipelines from landing files to the corresponding buckets to set up scheduled takes and help with **Lambda and glue triggers**.
* Highly experience in converting unstructured data into structured data using python modules.
* Excellent experience in using python SDK’s for developing these corresponding API’s.
* Gave an active performance in documenting the **Architecture** from the beginning and gave an involvement to resolve problems in timely manner.
* Mentoring the team and junior developers to handle the project.

**Environment: Python, AWS, EC2, S3, Lambda function, Lambda triggers, Dockers, Jenkins, Numpy, Pandas, Matplotlib, PySpark, Spark, Git.**

**Client: Walmart labs, Bentonville, AR June’ 2019 – Jan’ 2020**

**Role: Python developer**

**Description:** Responsible for developing a Microservices and maintain the interchange of data between the server and the users. The essential concentration is to develop and maintain all Data and generate the reports for business insights, guaranteeing superior and responsiveness to demands from the front-end and responsible for incorporating the front-end components worked by our colleagues in the application.

**Responsibilities:**

* Associated with various phases of Software Development Life Cycle **(SDLC)** of the application like requirement gathering, Design, Analysis and Code development.
* Developed entire frontend and backend modules using Python on Django Web Framework by implementing **MVC architecture**.
* Implemented **Responsive User Interface** and standards throughout the development and
* maintenance of the website using the HTML, CSS, JavaScript, Bootstrap, jQuery.
* Worked with team of developers on **Python** applications for RISK management.
* Generated **Python Django Forms** to record data of online users.
* Migrated applications from internal data center to **AWS.**
* Developed **API** for using **AWS Lambda** to manage the servers and run the code in the **AWS.**
* Used **Python** and **Django** creating graphics, **XML** processing, data exchange and business logic implementation.
* Implemented the **Backbone JS** for **DOM** manipulation as this is the light web framework compared to Angular JS.
* Worked on Django ORM module for signing complex queries.
* Load balancing of ETL processes, database performance tuning ETL processing tools.
* Loaded the data from Teradata to HDFS using Teradata Hadoop connectors.
* Hands on experience in Amazon Web Services AWS provisioning and good knowledge of AWS services like EC2, S3, **Red shift**, Glacier, Bamboo, API Gateway, ELB (Load Balancers), RDS, SNS, SWF and EBS etc and Azure.
* Migrating a production infrastructure into an Amazon Web Services utilizing AWS Cloud Formation, Code Deploy, EBS and Ops Works.
* Build servers using AWS, importing volumes, CloudFront, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection and open stack to provision new machines for clients.
* Configured the **Kubernetes** provider with **Terraform** which is used to interact with resources supported by **Kubernetes** to create several services such as Config Map, Namespace, Volume, Auto scaler, etc.
* Created the environment specific settings for a new deployment and updated the deployment specific conditional checks in code base to use specific checks.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the **Kubernetes** applications, templatize **Kubernetes** manifests, provide a set of configuration parameters to customize the deployment and Managed releases of **Helm** packages.
* Experienced in **ORM** programming in converting data between incompatible type systems in **OOP** languages.
* Developed **flask Restful API** endpoints for accessing through **UI** and uploading **ETL** data.
* Contribute to major development initiatives with codebases utilizing **Python, Django, R, MySQL, MongoDB, jQuery** and **React.**
* Extensively worked with Spark Data frames API’s for ingesting data in different formats like Flat Files, Parquet Files, RDD’s etc to transform both unstructured data and structured data.
* Performed Compatibility testing of applications for dynamic and static content of browsers using **HTML Ids** and **XPath** in **Selenium.**
* Developed entire frontend and backend modules using **Python** on **Django Web Framework** with **GIT**.
* Wrote and executed various **MYSQL** database queries from **Python** using **Python-MySQL** connector and **MySQLdb** package.
* Streamlined the **CI/CD** process for application deployments by enforcing strong **source code repository** management techniques and securing configuration files away from application source code for improved security.
* Experienced in using **Pig, Hive, Sqoop, Oozie, Zookeeper, HBase** and **Cloudera Spark, Ansible, Docker** and **Git.**
* Used **IDE** tool to develop the application and **JIRA** for bug and issue tracking and Used **JIRA** to assign, track, report and audit the issues.
* Developed and tested many features for dashboard using **Python, Java, Bootstrap, CSS, JavaScript** and **JQuery.**
* Designed and developed the **UI** of the website using **HTML, XHTML, AJAX, CSS** and **JavaScript.**
* Worked on cross browser compilation and Responsive **Web** Design using **HTML5, CSS3** and **Bootstrap.**
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.
* Resolved ongoing problems and accurately documented progress of a project.

**Environment: Python, AWS, Django, MongoDB, Selenium, Pandas, Java, JQuery, Zookeeper, Bootstrap, Lambda, MySQL, Linux, Ajax, Java Script, Apache, JIRA, Cassandra, HTML5 and CSS, Angular JS, Backbone JS.**

**Client: Apple Inc., Sunnyvale, CA June’ 2018 – May’ 2019**

**Role: Python developer**

**Description**: Worked on development of customer support and complains registration system for Apple. This is a Post sales and Customer feedback and complaints management system. Responsible for monitoring and supporting a great number of technical services. Responsible for monitoring and maintenance of a relational database system.

**Responsibilities:**

* Translated the customer requirements into design specifications and ensured that the requirements translate into software solution.
* Application was based on service-oriented architecture and used **Python 2.7, Django1.5, JSF 2.1, Spring 3.2.5, Ajax, HTML, CSS** for the frontend.
* Developed Automation Scripts for Regression using **Selenium Web Driver** and **Python.**
* Generated **Python Django Forms** to record data of online financial users.
* Worked on Integration of **Selenium RC/WebDriver** with existing **API** to **test Framework.**
* Used **Pandas API** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and **python libraries**. Used **TDD** (Test driven development) methodology.
* Experienced **Python** on **LINUX** for execution.
* Actively involved in developing the methods for Create, Read, Update and Delete (**CRUD)** in Active Record.
* Implemented database access using **Django ORM.**
* Designed and developed **ETL** processes that were used to integrate data between various sources using **Informatica, PowerCenter 9.**
* Designed and developed **Oracle PL/SQL** Procedures, Functions, and Database Triggers and involved in creating and updating Packages to meet business requirements.
* Used **Python library Beautiful Soup** for web scrapping to extract data for building graphs.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using **Django, OracleDB, PostgreSQL**, and **VMware API** calls.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on **MySQL** and **PostgreSQL** database.
* Used **Python and Groovy Scripting** for automation, highly scalable, build promotions for staging to production.
* Used **Amazon Cloud EC2** along with **Amazon S3 bucket** to upload and retrieve project history.
* Used Jenkins for **continuous integration and deployment** into **Apache Tomcat Server**.
* Written **Chef cookbooks** and recipes to provision several pre-prod environments consisting of deployment **automation**, AWS EC2 instance **mirroring**, **Weblogic** domain creations and several proprietary middleware installations.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML, CSS, JavaScript** and **JQuery.**
* Designed **RESTful XML** web service for handling **AJAX** requests.
* Worked in development of applications especially in Linux environment and familiar with all of its commands.
* Skilled in using collections in **Python** for manipulating and looping through different user defined objects.
* Troubleshooting **ETL** issues in **SQL** Server Integration Services.

**Environment: Python, Django, Selenium, HTML5, CSS, VMware, Oracle DB, Pandas, Spring, MS SQL Server 2013, Jasper, Reports, JavaScript, Ajax, Eclipse, Linux, Shell Scripting, RESTful, MVC3.**

**Client: HDFC bank, India July’ 2013 – Nov’ 2015**

**Role: Python Developer**

**Description:** Worked as a Python Developer at HDFC bank Bangalore, HDFC bank have business all over India. HDFC a leading company in banking sector, have a multiple level of streaming data and batch data. Gummadi is involved in writing modules in Python.

**Responsibilities:**

* Involved in analysis, specification, design, and implementation and testing phases of Software
* Development Life Cycle (**SDLC**) and used agile methodology for developing application.
* Working as an application developer experienced with controllers, views and models in Django
* Used Salt Stack to configure and manage the infrastructure
* Restful web services using **Python REST API Framework**.
* Implemented the application using **Python Spring IOC** (Inversion of Control), **Django Framework** and handled the security using **Python Spring Security**.
* Tested entire frontend and backend modules using **Python** on **Django Web Framework**
* Responsible for handling the integration of database system.
* Developed Server-side automation using **Node JS** scripting and connecting different types of **SQL** and **NoSQL** stores from **Node JS**.
* Used object-relational mapping (**ORM**) solution, technique of mapping data representation from **MVC** model to Oracle Relational data model with an **SQL-**based scheme.
* Implemented Performance tuning and improved the Performance of Stored Procedures and Queries.
* Installed and configured **py Builder** for application builds and deploying it.
* Used **Selenium** Library to write fully functioning test automation process that allowed the simulation of submitting different we request from multiple browser to web application.
* Developed and Deployed **SOAP** based **Web Services** on **Tomcat Server**.
* Used Jenkins for continuous integration for code quality inspection and worked on building local repository mirror and source code management using **Git hub**.
* Used **IDE** tool to develop the application and **JIRA** for bug and issue tracking.
* Wrote unit testing codes using unit test, resolving bugs and other defects using Firebug.
* Used **JIRA** to assign, track, report and audit the issues.
* Used **GIT** to coordinate team development.

**Environment: Python, Django Web Framework, HTML, CSS, NoSQL, JavaScript, JQuery, Sublime Text, Jira, GIT, py Builder, unit test, Firebug, Web Services.**