**Varun Ch**

**Sr. Python Developer**

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 **Professional Summary**

* Around 9+ years of experience as **Python**developer in using new tools and technical developments to drive improvements throughout entire Software Development Lifecycle.
* Experienced with full software development lifecycle, architecting scalable platforms, database design and agile methodologies.
* Experienced of software development in **Python** (libraries used: libraries- **Beautiful** **Soup**, **NumPy**, **SciPy**, matplotlib, **python**-twitter, **Panda’s** **data** **frame**, network, **urllib2**, **MySQL** **DB** for database connectivity) and **IDEs** - sublime text, **Spyder**, **PyCharm**, emacs.
* Hands on experience working with quant/data **Python** libraries (**pandas**/**NumPy**).
* Experienced in Managing, developing, and designing a dashboard control panel for customers and Administrators using **Django**, **HTML**, **CSS**, **JavaScript**, **Bootstrap**, **jQuery**, and **REST** API calls.
* Experienced in developing Single Page Applications (**SPA**) using JavaScript frameworks like **ReactJS**.
* Experience in working with various**Python** Integrated Development, **PyCharm**, **Atom**, **Spyder**, **Eclipse**, **Visual** **Studio** **Code**, **Notepad++,** and Sublime Text.
* Experience in object-oriented programming (OOP) concepts like Multi-Threading, Exception Handling and Collections using **Python**.
* Build back-end application with **Python**/ **Django**, Worked on **Dockers,** and **Jenkins**.
* Object Oriented Perl and for selenium-based tests using **Python**.
* Expertise working with **AWS** cloud services like **EMR**, **S3**, **EC2**, **Redshift**, **EMR** cloud watch, cloud formation, security groups, for big data development.
* Good experience in **SQL** **Server**, **Linux**, **Open** **Stack** and **Shell** **Scripting**.
* Experienced in design patterns such as **MVC** using **Django**, **Flask** and deploying applications on **Apache** **tomcat** server, containerizing applications using **Docker**.
* Experience in SQL databases **MSSQL Server, MySQL, Oracle DB, Postgres, and MongoDB.**
* Hands on Experience on **Kubernetes** to deploy scale, load balance, and manage **Docker** containers with multiple namespace versions.
* Configured and automated various **AWS** services like **EC2** and **S3** using **Boto** (**Python** **sdk**).
* Experienced in various types of testing such as Unit **testing**, **Integration** **testing**, **Functional** **testing**, and User acceptance testing.
* Extensive knowledge on automated batch programs by **Linux/UNIX shell Scripts** (such as file download, file Validation, assign permissions and workflow executions).
* Having experience in writing Subqueries, Stored Procedures, Triggers, Cursors, and Functions on **MySQL**, **PL**/**SQL,** and **PostgreSQL databases**.
* Create, maintain, modify, and optimize **SQL Server databases.**
* Experience with tools like **Git** and **Jenkins** for version control and **continuous deployment**.
* Worked on **NoSQL** databases including **HBase** and **Cassandra**.
* Hands-on use of **Spark** and Scala **APIs** to compare the performance of **Spark** with **Hive** and **SQL**, and **Spark** **SQL** to manipulate Data Frames in **Scala**.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Programming Languages** | SQL, PL/SQL, Python, UNIX, Pyspark, Pig, HiveQL, ShellScripting S, JavaScript with React |
| **Web Technologies** | HTML5, CSS3, XML, Bootstrap3, AJAX, and Dom, Flask, Django |
| **Web Servers** | WebLogic, Apache Tomcat, Nginx |
| **Application Server** | Tomcat, GraphQL, RESTful services |
| **Databases** | SQL, MySQL, Oracle, DynamoDB, MongoDB |
| **Frameworks** | Django, Flask, Pyramid |
| **Tools & IDE** | Visual Studio, Eclipse, PyTest, PyCharm, VIM editor |
| **Python Libraries** | NumPy, Pandas, matplotlib |
| **Operating systems** | Windows, Linux, Unix, MacOS |
| **Automation tools** | Jenkins, chef, Puppet, Ansible, Docker, Kubernetes, CloudFormation. |
| **Methodologies** | Agile, Scrum, Waterfall |
| **Cloud Management** | MS Azure (Databricks, Data Lake, Data Storage, Data Factory), Amazon Web Services (AWS)- EC2, EMR, S3, Redshift, EMR, Lambda, Athena, Identity and Access Management, Eks, ECS GCP. |
| **Monitoring Tools** | Splunk, CloudWatch, Data Dog, Stream Alert |

**PROFESSIONAL EXPERIENCE:**

**CBRE Inc. - TX Oct 2021 – Till date**

 **Senior Python Developer**

**Description:** CBRE Group, Inc. is an American commercial real estate services and investment firm. The abbreviation CBRE stands for Coldwell Banker Richard Ellis. It is the largest commercial real estate services company in the world.

**Responsibilities:**

* Developed views and templates for applications with **MySQL**, **Python** and **Django's** view controller and templating language to create a user-friendly interface to perform in a high-level
* Built web application by using **Python**, **Django**, **AWS**, **J2EE**, **PostgreSQL**, **MySQL**, **Oracle,** and **MongoDB**.
* Developed backend of the application using the **flask** framework.
* Designed new features and made improvements to existing features in the code by fixing bugs.
* Extensively worked on Data Extraction from **REST** API’s, performed data munging, data modelling and loaded the data into **Redshift DB.**
* Designed & implemented QA test strategy plans manually and automated Test solutions for Client/server and Web applications with Selenium WebDriver.
* Used **NumPy** and **Pandas** for data manipulation to check machine learning models.
* Developed several REST APIs using Swagger, microservices style of architecture with Kafka as message broker and Mongo DB as backend database.
* Enhanced search Query Performance based on Splunk Search Queries.
* Replaced with Kafka connect in implemented multiple consumers.
* Got involved in migrating on prem Hadoop system to using GCP.
* Developed and tested many features for **dashboard** using **React**, **Next**, **Flask**, **CSS**, and **JavaScript**
* Managed and supported Continuous Integration (CI) using **Jenkins** and **bitbucket**
* Helped in interactive API documentation for specific **Python SDK** methods to write custom requirements
* Developed framework for converting existing **Power Center** mappings to **PySpark** (Python and Spark)
* Created **PySpark** frame to bring data from **DB2** to **Amazon S3.**
* Create CFT and Terraform Scripts to automate deployment and configuration of various data lake components on AWS such as Cassandra clusters, Couchbase on EKS, ECS, Airflow, Glue, AWS RDS, Redshift, EMR, Tableau and SAS on RHEL with stripped volume.
* Experience in MuleSoft AnypointAPI platform on designing and implementing Mule APIs by documenting and designing REST API’s using RAML.
* Utilized Mulesoft features like Dataweave, API designer and various connectors to ensure robust and loosely coupled integration layer every time.
* Redesigned the existing stored procs code by sing merge Statements, temp tables, table variables, CTE and exists clause to improve the performance of the stored procs.
* Wrote Lambda functions in python for **AWS's EMR, Lambda** which invokes python scripts to perform various transformations and analytics on large data sets to various formats.
* Validated the developed lambda scripts and fixed the identified bugs.
* Developed single page application using React Redux architecture, ES6, web pack and grunt.
* Involved in creating a resuable component using Reactjs for DOM manipulation.
* Developed various screens for front end using ReactJS and used various predefined components from NPM and Redux libraries.
* Developedmicroservicesusing **AWS EMR Lambda, API Gateway, DynamoDB, RDS** according to the scenario**.**
* Architected and detailed Position, PnL, and FICC data migration process from multiple sources into Snowflake and Vertica from Sybase - IQ, SQL Server, and Oracle.
* Campaign Optimization, analysis and tracking the campaign success, Generating Regular, Ad-Hoc Reports of CRM, MIS and segmentation reports using SAS Tools.
* Creating permanent formatted SAS data sets and developed reports using PROC REPOT, PROC TABULATE and DATA NULL for analysis.
* Resposnible for maintenance and enhancements in reporting systems using SAS/BASE, SAS/MACRO, SAS/SQL, SAS/PLSQL and SAS/GRAPH
* Coded **Snowflake** data loaders using Python. Reorganized large volumes of data.
* Created Python ETL pipelines for teardown and “trickle” data migration from different backends to **Snowflake**, SQL Server, and **Vertica**. Provided guidance to development team working on **PySpark** as **ETL** platform
* Responsible for **ETL** and **orchestration** process using **Airflow and NiFi** tool
* Added support for Amazon **AWS S3** and **RDS** to host files and the database into **Amazon Cloud.**
* Debugged the application and followed messages in log files, to figure out the error if existing.
* Developed API modularizing existing python modules with the help of **Pyyaml** libraries.
* Experience in Identity & Access management Solution including Single Sign On.
* Design Identity and Access Management Infrastructure as an upgrade to the current 10g OAM Production Infrastructure.
* Utilized **PyUnit**, the **Python** unit test framework, for all Python applications.
* Creating **unit test/regression** test framework for working code
* Experience in developing **test automation framework** scripts using **Python Selenium WebDriver**

**Environment:** Python, Flask, AWS, Pyramid, Redis, Django, Docker, REST, GitHub, Swagger, LINUX, NumPy, Node.JS, AJAX, ReactJS, Angular2, Azure DevOps

**Xcel Energy, Denver, CO Jan 2020 to Sep 2021**

**Python developer**

**Responsibilities:**

* 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.
* Build all database mapping classes using **FLASK** models.
* Responsible for maintenance of applications with technologies such as **Python**/**SQL**
* Created Test plans. Worked on **SQL** scripts to load data in the tables.
* Developed data pipeline components inside **AWS** Cloud.
* Connected continuous integration system with **GIT** version control repository and continually build as the check-in's come from the developer.
* Coding **groovy**, domain class to handle the business logic.
* Developed entire frontend and backend modules using **Python** on **FLASK** Framework.
* Developed monitoring and notification tools using **Python**.
* Expert knowledge of mobile application development along with various patterns native, web, and hybrid concepts.
* Implemented Test Driven Development and followed standards like code coverage etc.
* Involved in business logic discussions and use case design.
* Reviewed product requirement documents, functional specifications, and involved in developing test strategy, test plan and test case documents.
* Established framework to setup Continuous Integration environment using **Jenkins.**
* Built deployment pipeline using **AWS** Code pipeline and CloudFormation templates.
* Built serverless microservices using the integration of **API** Gateway and **AWS** Lambda.
* Extensive experience in implementing **Continuous Integration and Continuous Delivery (using Jenkins) in an AWS Environment.**
* Used **Pandas API** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Worked on **AWS** Cloud and Created instances in **EC2.**
* Participated in weekly release meetings with Technology stakeholders to identify and migrate potential risks associated with the releases.
* Designed, developed, and implemented **ETL** pipelines using **python API** (**pySpark**) of

 **Apache Spark** on **AWS EMR**.

* Worked on performance tuning of **PySpark** scripts to ensure overall build delivery

 quality is good and on time delivery is always done.

* Experienced in designing Test Plans and Test Cases, Verifying and Validating Web based applications.
* Implemented customized branching strategy for GitHub.
* Worked with **Docker** components like creating **Docker** images compose **Docker** registry and handling multiple images primarily for middleware installations and configurations.
* Working with **backend python automation**, Docker, and **cloud provisioning/automation.**

**Environment**: Python, Django, PostgreSQL, S3, CloudFormation, Code pipeline, API Gateway, Docker, PyTest, JSON, GitHub, GraphQL/RESTful, AWS, Agile.

**Innovation Technologies Pvt. Ltd, Hyderabad, India Apr 2018 to Nov 2019**

**Python developer**

**Responsibilities:**

* Participated in requirement gathering and worked closely with the architect in designing and modeling.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Performed testing using Django's Test Module.
* Used Django configuration to manage URLs and application parameters.
* Involved in Web development, programming, and engineering Django and SQL internal admin tools behave BDD.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Developed a fully automated continuous integration system using Git, MySQL and custom tools developed in Python.
* Wrote Python scripts to parse XML documents and load the data in database.
* Generated property list for every application dynamically using Python.
* Designed and developed the UI of the website using HTML5, XHTML, CSS3 and JavaScript.
* Handled all the client-side validation using JavaScript.
* Designed and developed data management system using MySQL.
* Created a Git repository and added the project to GitHub.
* Creating unit test/regression test framework for working/new code.
* Responsible for debugging and troubleshooting the web application.
* Responsible for requirements gathering, designing, coding web applications using Java Scripts, HTML, CSS and jQuery.

**Environment** Python 2.7, Django 1.4, Bootstrap, AWS,XML, MySQL, HTML, XHTML, CSS, JavaScript, Apache Web Server, Linux., Apache Tomcat, PL/ Sql

**Zoondia Software Pvt Ltd, Hyderabad, India Oct 2016 to Mar 2018**

**Python Developer**

**Responsibilities:**

* Followed Agile Methodologies to manage full life-cycle development of the project.
* Developed views and templates with Python and Django view controller and templating language to create a user-friendly website interface.
* Developed Python code to gather the data from Hbase(Cornerstone) and deigns the solution to implement using **PySpark**.
* Created **PySpark** Scripts to load data from source files to RDDs, created data frames from RDD and perform transformations and aggregations and collect the output of the process.
* Worked on large-scale, high-traffic Python web applications to define and implement new features, enhance core functionality, and integrate with other platforms and services.
* Installation, configuring, upgrading, migrating, and patching of DB2, Oracle, and SQL Server.
* Expertise in establishing database connections for Python by configuring packages like MySQL- Python.
* Handled potential points of failure through error handling and communication of failure.
* 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.
* Worked on installing and setting up the channels by using Django. Used JavaScript and JSON to update a portion of a webpage.
* Build SQL queries for performing various CRUD operations like create, update, read and delete.
* Skilled in using Collections in Python for manipulating and looping through different user defined objects.
* Deployed the project into Heroku using the GIT version control system and Microservices.

**Environment:** Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, Bugzilla, jQuery, CSS Bootstrap, Mongo DB, MS SQL Server, Eclipse, Git, GitHub, Linux, Shell Scripting.

**Knoah Solutions, Hyderabad, India Jan 2014 to Sep 2016**

**Python Developer**

**Responsibilities**:

* Participated in the complete **SDLC** process and used Python to develop website functionality.
* Designed and developed data management system using **MySQL**, application logic using Python and **Django** **APIs** for database access.
* Created documentation for all the components which is included in **React-Bootstrap page.**
* Used **React JS** for **templating** for faster compilation and developing reusable **components**.
* Develop framework for converting existing PowerCenter mappings and to **PySPark**(Python and sspark).
* Provided guidance to development team working on **PySpark** as ETL platform.
* Developed spark applications in python(**pyspark**) on distributed environment to load huge number o csv files with different schema in to Hive ORC tables.
* Established **Microservices** architecture using **docker and Kubernetes**.
* Worked with OpenShift platform in managing Docker containers and Kubernetes Clusters
* Participated in requirement gathering and worked closely with the architect in designing and modeling.
* Worked on development of **SQL** and stored procedures on **MYSQL.**
* Designed and developed a horizontally scalable APIs using **Flask** and **Cassandra** schema for the APIs.
* Designed RESTful **XML** web service for handling **AJAX** requests.
* Developed remote integration with third party platforms by using **RESTful** web services.
* Updated and maintained Jenkins for automatic building jobs and deployment.
* Implemented database access using **Django** **ORM.**
* Backend data access modules using **PL/SQL** stored procedures and **Oracle** were designed and created.
* Created **RESTful** APIs calls with server, parse output report of excel files.
* Extensively used **python** modules such as requests, **urllib**, **urllib2** for **web crawling**
* Used **Pandas** API to put the data as time series and tabular form for east timestamp data manipulation and retrieval
* Used Test Driven Approach for developing the application and implemented the unit tests using Python **Unit Test** framework
* Maintained existing Power BI reports and dashboards and made changes onto the same as per requirements.
* Implemented code to perform **CRUD** operations on **MYSQL** using **Toad.**
* Deployment of the web application using the **Linux** server with Bash scripts.

**Environment**: Python, Django Framework, React JS, CSS, PyCharm, SQL, MySQL, LAMP, jQuery, Kubernetes, Adobe Dreamweaver, Apache web server

**Education Details: -**

Bachelor’s in computer science Jawaharlal Nehru Technological University 2014