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Have 12+ years of extensive experience as a proficient Python Developer, I possess the confidence to deliver exceptional software solutions that not only meet business needs but also surpass user expectations. My strong technical acumen encompasses a profound grasp of Python frameworks, adept database management, proficient web application development, and proficient utilization of data analysis tools. Furthermore, I am known for my collaborative problem-solving approach and exceptional communication abilities, which enable me to excel as both a team player and a leader. I maintain a fervent commitment to staying abreast of emerging technologies and trends in the software development field to consistently provide cutting-edge solutions to clients.

Professional Summary:

- Having 12+ years of experience with skills in Analysis, Design and Development of highly scalable Multi - tiered Web Applications, Distributed Applications and Web Services.
- Experience in application development using **Python, Django, Scala**, Angular 5, **HTML5, CSS, JavaScript, and jQuery, MySQL, PostgreSQL** and **SQLite**.
- Experience in **Python** handling File I/O, performing complex calculations using **NumPy, SciPy, Matplotlib**, and **Pandas**. Also, have a familiarity with web scraping using **Beautiful Soup** and machine learning concepts.
- Profound Knowledge of **Object-Oriented Design** and Programming concepts and Experience in **Object Oriented Programming** (OOP) concepts using **python**.
- Experience in developing web applications implementing **MVC** architecture using **Django, Ansible, Flask, and Webapp2** and **spring** web application frameworks.
- Deeply involved in writing complex Spark-Scala scripts, Spark context, Cassandra SQL context, used multiple API's, methods which support data frames, RDD's, Cassandra table joins and finally write/save the data frames/RDD's to Cassandra database.
- Developed and implemented machine learning models using Python and popular libraries such as **scikit-learn, TensorFlow, and PyTorch**.
- Designed and deployed end-to-end **ML pipelines**, from data collection and preprocessing to model training and deployment.
- Experience in writing JSON REST APIs using **Golang**.
- Expertise in React JS and working with React Flux architecture.
- Strong command in JavaScript leading Frameworks Team like Angular.js, React.js, backbone.js, bootstrap.js, Node.Js and Projects UI Designing Team.
- Strong proficiency in Python for **AI and Machine Learning**, leveraging libraries like NumPy, **pandas, scikit-learn, and TensorFlow**
- Developed various screens for the front end using **Angular**. Created **Components, and Services** using **Angular CLI**.
- **Expertise on UNIX, Python and Perl scripting capabilities.**
- **Worked on data processing and transformations and actions in spark by using Python (Pyspark) language.**
- Experience in working with Python ORM Libraries including Django ORM.

- Good Experience of software development in Python (libraries used: GCP, scipy, matplotlib, python -twitter, CSS dataframe, MySQL dB for database connectivity) and IDEs - sublime text, Spyder, pycharm.
- Expertise in **Teradata** database administration and management, including **Teradata SQL, BTEQ, and FastLoad**.
- Expertise in Service Oriented Architecture (SOA) and its related technologies like Web Services, BPEL, WSDLs, SOAP, XML, XSD, XSLT etc.
- Experience in developing web services (**WSDL, SOAP and REST**) and consuming web services with python programming language.
- Experience in network virtualization tool NASH.
- Worked on several python libraries such as GCP, CSS, Matplotlib, Seaborn, SciPy, API , and have good knowledge in several machine learning algorithms.
- Experienced in a Python based environment, along with data analytics, data wrangling and Excel data extracts.
- Use of API , OpenNLP & StanfordNLP for Natural Language Processing and sentiment analysis.Helped various teams to deploy the application on GCP, RDS, IBM soft layer and Microsoft Azure
- Proficient in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like Oracle and MySQL.
- Knowledge on Scala Programming Language. Good experience with Talend open studio for designing ETL Jobs for Processing of data.
- Excellent experience in designing and maintaining complex SQL queries and developing PL/SQL stored procedures.
- Involved in SNMP Network management.
- Profound knowledge of Apache server, **Apache Server Tomcat**, and Web logic.
- Experienced in using **Git** and **GitHub** to maintain current and previous versions of project files.
- Experienced communicating with business users, well-being with a team or as an individual, working in agile development environment adhering to deadlines.

Technical Skills:

Languages	Python 2.5-2.7/3.4-3.6, Ruby, Scala, JavaScript, Java, C/C++, SQL, MySQL, PostgreSQL, and SQLite, HTML 5, CSS3, Perl, Scala, XML, JSON.
Frameworks	Django 2.0/3.0 , Flask, Snowflake, Airflow, Flask, Bootstrap, Angular 7/8, NodeJS, ReactJS, Spark, CherryPy, Pyramid, Hibernate, Docker, Panda, Spring,
Database	MYSQL, PostgreSQL, MS SQL, MongoDB, SQLite, Oracle, SQL Developer
Tools	and Version Control GIT, SVN, CVS, DIMENSIONS, LAMP, WAMP, SVN, SSH
Software Management	GIT, SVN, Maven, Gradle, CVS. AWS
Web Technologies	Servlet, JSP, JSON, AJAX, SAAS XML, CSS, CSS3, HTML5, DHTML, selenium, JavaScript, JQuery, MVC, AWS, Bootstrap, RESTful, SAS, ML, AngularJS, Azure Data Factory, SOA, AJAX and Node.js, Redshift, Streamlit Analytics
Operating Systems	Windows, Mac, Linux, UNIX
IDEs/tools	PhpStrom, Notepad++, Sublime, Net Beans, Eclipse, Visual Code PyCharm, RAD 7.0

Web Services	REST, SOAP, WSDL, Selenium
JavaScript Library	JQuery, Angular JS, Bootstrap, Backbone.JS, Node.JS, Vue.JS, Ember.JS
Application Servers	Apache Tomcat Server

Education:

- Southern Polytechnic State University (MS in Computer Science)

Client: AllSpring Global Investments.,(Remote)

Oct 2020- Present

Role: Lead Python Developer

Responsibilities:

- Automate different workflows, which are initiated manually with **Python scripts** and **Unix shell scripting**.
- Create, activate, and program in **Anaconda environment**.
- Use **Python** unit and functional testing modules such as **unit test**, **unittest2**, **mock**, and **custom frameworks** in-line with **Agile Software Development** methodologies.
- Develop Swoop scripts to handle change data capture for processing incremental records between new arrived and existing data in **RDBMS** tables.
- Writing unit tests, integration tests, and end-to-end tests for code coverage.
- Worked with Test-driven development (TDD) and behavior-driven development (BDD) methodologies.
- Developed custom ML algorithms for specific business use cases, optimizing model performance and accuracy.
- Experienced in building a Command line tool to interact with RESTful API using in **Golang**.
- Used Go Programming Language (**Go Lang**) and Scala in the development of the application.
- Installed **Hadoop**, **Map Reduce**, **HDFS**, **AWS** and developed multiple **MapReduce** jobs in **PIG** and **Hive** for data cleaning and pre-processing.
- Extensive use of Python/Perl scripts and UNIX in project development.
- Proven ability to lead an active, skilled DevOps AEM Administrator team in a Team Lead capacity supporting Adobe Experience Manager (AEM).
- Used ECMAScript 6, ReactJS, Flux, Babel, Node and Web-Pack to create a SPA.
- Worked in API group running Jenkins in a Docker container with RDS, GCP slaves in Amazon AWS
- Manage datasets using **Panda data frames** and **MySQL**, **queried MYSQL database queries** from **python** using **Python-MySQL** connector and **MySQL dB** package to retrieve information.
- Involved in the **Web/Application development** using **Python 3.5**, **HTML5**, **CSS3**, **AJAX**, **JSON** and **Jquery**.
- Develop and tested many features for dashboard using **Python**, **Java**, **Bootstrap**, **CSS**, **JavaScript** and **Jquery**.
- Generated **Python Django** forms to record data of online users and used **PyTest** for **writing test cases**.
- Implemented and modified various **SQL queries** and **Functions**, **Cursors** and **Triggers** as per the client requirements.
- Expertise in supervised and unsupervised **machine learning algorithms**, including regression, classification, clustering, and anomaly detection
- Worked with large-scale datasets and distributed computing frameworks like **Apache Spark** for **ML (machine learning) tasks**.

- Integrated **ML(machine learning)** models into web applications and APIs for real-time predictions.
- Led scrum sessions for the DevOps AEM Administrator Team resource planning to ensure all project deliverables were met.
- Run and Schedule the Spark script in EMR pipes.
- Experience in working with Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud environment and familiar with surrounding technologies such as Mesos (Mesosphere) and Kubernetes
- Engineered a data processing pipeline with GCP, API, CSS, API & OpenSlide APIs to pre-process largescale
- Clean data and processed third party spending data into maneuverable deliverables within specific format with Excel macros and python libraries such as **NumPy, SQLAlchemy and matplotlib**.
- Developed analytical component using Scala and KAFKA.
- Used **Pandas** as **API** to put the data as time series and tabular format for manipulation and retrieval of data.
- Helped with the migration from the old server to **Jira database (Matching Fields)** with **Python scripts** for transferring and verifying the information.
- Contributed to open-source AI and Machine Learning projects and communities.
- Develop the scripts using Perl, Python, Unix and SQL.
- Managed data security in Teradata, implementing role-based access control (RBAC) and encryption mechanisms.
- Leded Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, Kubernetes manifest files and releases of Helm packages.
- Created the Application using React.JS and Node.js libraries NPM, gulp directories to generate desired view and flux to root the URL's properly.
- Based on new spark versions, applying different optimization transformation rules.
- Designed a python script to load transformed data into cloud services (AWS, Azure, and GCP).
- Analyze Format data using **Machine Learning algorithm** by **Python Scikit-Learn**.
- Experience in **python, Jupyter**, Scientific computing stack (**NumPy, scipy, pandas and matplotlib**).
- Perform troubleshooting, fixed, and deployed many **Python bug fixes** of the two main applications that were a main source of data for both customers and internal customer service team.
- Write **Python scripts** to parse **JSON** documents and load the data in database.
- Generating various capacity planning reports (graphical) using Python packages like **NumPy, matplotlib**.
- Analyzing various logs that are been generating and predicting/forecasting next occurrence of event with various **Python libraries**.
- Sole responsibility to ensure all DevOps AEM Administrators were working towards required tasks on a daily basis.
- Developing and deploying of Perl scripts, ControlM jobs, Progress and SQL queries.
- Designed SPA (Single page applications) in Flux architecture using React.js.
- Developed single page application by using **Angular JS** backed by **MongoDB and NodeJS**.
- Design and maintain **databases** using **Python** and developed **Python based API (RESTful Web Service)** using **Flask, SQL Alchemy and PostgreSQL**.
- Manage code versioning with **GitHub, Bit Bucket** and deployment to staging and production servers and implement **MVC architecture** in developing the **web application** with the help of **Django framework**.
- Use Celery as task queue and **RabbitMQ, Redis** as messaging broker to execute asynchronous tasks.
- Design and manage **API system deployment** using fast http server and **Amazon AWS architecture**.

- Develop remote integration with third party platforms by using **RESTful web services** and Successful implementation of **Apache Spark and Spark Streaming applications** for large scale data.
- Built various graphs for business decision making using **Python mat plotlib library**.
- Involved in development of **Web Services** using **SOAP** for sending and getting data from the external interface in the **XML** format.
- Created RESTful APIs using **Google Cloud Endpoints** and Flask.
- Worked on developing CRUD applications using **MERN stack (MongoDB, Express, ReactJS and NodeJS)** and **REST based API**.
- Export Test case Scripts and modified the selenium scripts and executed in **Selenium environment**.
- Developed entire frontend and backend modules using **Python on Django Web Framework**.
- Scraping website using **Python Beautiful Soup**, and then parsed it with **XML**.
- Outputting the parsed data as **JSON/BSON** and stored into **MongoDB**
- Used **NLTK** and **StanfordNLP** to process text data and created offline intelligence.
- Querying data from **MongoDB** and use them as input for the machine learning models
- Using **AWS** for application deployment and configuration.
- Wrote **UNIX shell scripting** for automation.
- Utilized **Google Cloud SDK** and **Cloud Shell** for GCP resource management.
- Developed views and templates with **Django** view controller and template Language to create a user-friendly website interface.
- Used **JavaScript** and **JSON** to update a portion of a webpage.
- Develop consumer-based features using **Django, HTML and Test-Driven Development (TDD)**.
- Developed **Python web services** for processing **JSON** and interfacing with the Data layer.
- Increased the speed of pre-existing search indexes through **Django ORM optimizations**.
- Developed module to build **Django ORM queries** that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.

Environment: Python 2.7, Scala language with Akka framework, Django, GCP, HTML5/CSS, PostgreSQL, MS SQL Server 2013, MySQL, JavaScript, Jupyter Notebook, Kubernetes, React JS, VIM, Pycharm, Shell Scripting, Angular.JS, JIRA.

Client: Cisco Systems Inc, (San Jose, California)

Mar 2016 – Oct 2020

Role: Sr Full stack Python Developer

Responsibilities:

- Worked with time series data, applying **ML models** for forecasting and anomaly detection.
- Leveraged cloud-based AI services like **AWS SageMaker** and **Azure Machine Learning** for streamlined model development.
- Worked with Google Kubernetes Engine (GKE) for container orchestration.
- Collaborated with domain experts to translate business problems into ML solutions.
- Deployed ML models on cloud platforms like **AWS, Azure, and Google Cloud**.
- Involved in All phases of Software Development Life Cycle (SDLC) - Agile.
- Managed datasets using Panda data frames and **MySQL**, queried **MYSQL** database queries from python using **Python-MySQL** connector and **MySQLdb** package to retrieve information.
- Use Spark Dataframe APIs to inject Oracle data to S3 and stored in Redshift
- Responsible for developing **UI using Html, CSS, Bootstrap and Angular Framework**.

- Implemented CI/CD pipelines using Cloud Build and Jenkins on GCP. Also Managed Docker containers and Kubernetes clusters on GCP
- Developed server-based web traffic statistical analysis tool using Pandas and had implemented and tested Python-based web applications interacting with MySQL.
- Implemented mapStateToProps, mapDispatchToProps for the interactions between Redux and React.
- Used **Angular Routing Module** to implement **routing, and role-based routing** for **Single Page Application**.
- Involved in development of Web Services using **SOAP** for sending and getting data from the external interface in the **XML** format.
- Set up **CI/CD** pipelines for Microservices on **AWS** using App services.
- Led the DevOps AEM Administrator Team to coordinate and implement all Adobe AEM updates.
- Wrote Python Code using Ansible Python API to Automate Cloud Deployment Process.
- Used regular expressions for faster search results in combination with **Angular built-in, custom pipes and ng2-charts** for report generation.
- Integrating the application with **Django REST framework, Ansible** for building the **API's** based on **Ansible document**.
- Modified existing Perl scripts to enhance performance.
- Developing the scripts for the automation using Perl, UNIX and SQL.
- Confidential data through spark and apply transformations rules.
- Import and export redshift data using Spark.
- Configured Jenkins for doing the build in all the non-production and production environments.
- Used **GitHub** for version control and added support for Amazon **AWSS3** and **RDS** to host static/media files and the database into **Amazon Cloud, Oracle and Angular 5**.
- Used Ansible Playbooks to setup Continuous Delivery Pipeline. Deployed micro services, including provisioning AWS environments using Ansible Playbooks.
- Experience in developing web applications and implementing Model View Control (MVC) architecture using server-side applications like Django and Flask.
- Creating new MEAN / MERN stack React applications.
- Developed front-end using Html, CSS, Javascript, React, Redux, Bootstrap.
- Developed Python Modules for Ansible Customizations.
- Maintained DevOps pipelines for integrating Salesforce code and manage continuous and manual deployments to the lower and higher environments. Save the data in Redshift and S3 using spark.
- Developed new Widget-app module for MMD 2.0 using React.js with Redux architecture and ES6.
- Consumed external APIs and wrote RESTful API using Django REST Framework and AngularJs.
- Good working experience within the Django ORM or writing native SQL in SQLServer.
- Set up VSTS CI/CD pipelines for Microservices on VSTS and deployed to Azure cloud using App services.
- Usage of advance features like **pickle/unpickle** in **python** for sharing the information across the applications.
- Used jQuery and AJAX calls for transmitting JSON data objects between front end and controllers and Utilized continuous integration and automated deployments with Jenkins.
- Tool to filter the task, assets, time and user involve, providing charts and visuals for upper management to reallocate resources using Python and PyQT.
- Migrated platform from physical server to virtual environment. Took it from development into production by wiring up a Nginx stack.
- Conducted data migrations to GCP using Transfer Appliance and Cloud Storage Transfer Service.

- Created API Keys and Usage plans in AWS API Gateways and used the keys across the regions for using the API Gateway
- Involved in back end development using Python with framework Flask
- Developed internal project in Flask to generate report from google analytics on daily, monthly and weekly basis.
- Developed the notification service by posting the JSON request in AWS API Gateway, Validating the response in Lambda by getting the data from Dynamodb and sending the notification through AWS SNS.
- Documented tasks in Confluence and related them to the JIRA tickets.
- Extensive experience in using Python /Perl to code and design various phases for data processing pipeline
- Experience working with version control systems such as Git and Apache SVN for maintaining a consistent state throughout the application development process.
- Implemented dynamic front end site using HTML, CSS, JavaScript and Perl Scripts.
- Used Test driven approach (TDD) for developing services required for the application.
- Created CI/CD pipelines and deployed into Kubernetes by creating **Docker** images, integration tests, **Jenkins** and art factory

Environment: Pandas, Ansible, NumPy, Matplotlib, Angular 5, AWS, MongoDB, Visual Studio Code, Apache Tomcat, React JS, GitHub, Windows. Python 3.3, Flask, Java Script, Matplotlib, Ansible, HTML, RESTful API, JQuery, JSON, AJAX, XML, CSS, Oracle 10G, SQL, MySQL, Bootstrap, Restful Web Services, React JS, Beautiful Soup, Jenkins, GitHub, SVN, Linux, PyCharm.

Client: Comcast Corporation (Philadelphia, Pennsylvania)

Jun 2014 – Feb 2016

Role: Python Developer

Responsibilities:

- Transform and analyze the data using Pyspark, HIVE, based on ETL mappings.
- Designed the user interactive web pages as the front - end part of the web application using various web technologies like **HTML, JavaScript, Angular JS, jQuery** and implemented CSS framework Bootstrap for better appearance and feel.
- Configuring, Automating and Deploying Chef, Puppet and Ansible for configuration management to existing Infrastructure.
- Utilized Python libraries **wxPython, numpy, Twisted** and **Matplotlib**.
- Involved in MVC architecture using Django for web-based application in OOP concepts.
- Developed efficient Angular.js for client web-based application.
- Used **PyQt** to implement GUI for the user to create, modify and view reports based on client data.
- Generated graphical reports using python package Numpy and Matplotlib.
- Designed and maintained databases using Python and developed Python based API (Restful Web Service) using Angular, **SQL Alchemy** and **PostgreSQL**.
- Implemented a CI/CD pipeline with Docker, Jenkins and GitHub by virtualizing the servers using Docker for the Dev and Test environments by achieving needs through configuring automation using Containerization.
- Used Docker plugins to setup Docker containers for build slave for Jenkins.
- Used **GIT** repository for software configuration management and version control
- Used **JIRA** for tracking and Updating Project issue.
- Developed pyspark programs and created the data frames and worked on transformations.
- Created CI/CD pipelines and deployed into Kubernetes by creating **Docker** images, integration tests, **Jenkins** and artifactory

Environment: Python, Django, Python scripting, NumPy, Ansible, Matplotlib, PostgreSQL, MySQL, AJAX, SOAP, REST, JQuery, JavaScript, Bootstrap, AWS (EC2, S3, RDS), Angular JS, Docker, GIT, Jira.

Client: - Texas Instruments, (Dallas, Texas)

Nov 2011 – Mar 2014

Role: Python Developer

Responsibilities:

- Participated in requirement gathering and analysis phase of the project in documenting the business requirements by conducting meetings with various business users. Used **Agile Methodology** and **SCRUM** Process.
- Developed user interface using, **CSS, HTML, JavaScript** and **Jquery** and **Django**.
- Used **Matplotlib** Python library for data visualization and report generation. Created pie charts and bar graphs to display trends from data analysis.
- Used **Beautiful Soup** python library for web scraping to extract important data from html and xml tags.
- Used **PyUnit**, the Python Unit test framework, to test the application.
- Develop framework for converting existing PowerCenter mappings and to PySpark(Python and Spark) Jobs.
- Design and Implement the CI/CD architecture and automation solutions. Develop a Build scripts, maintain, and scale infrastructure for Dev, QA, and Production environments.
- Used Python based GUI components for the front-end functionality such as selection criteria.
- Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval. Worked in development of applications especially in **Windows** environment.
- Responsible for Parsing **XML** data using XML parser and Testing, fixing of the bugs and coding modifications.
- Implemented **Ansible** to manage all existing servers and automate the build/configuration of new servers.
- Created a **GitHub** repository for code collaboration and worked on JIRA issue management to track sprint cycles.
- Designed and developed middleware, using **RESTful web services** based on a centralized schema which is consumed by thousands of users.

Environment: Python, Django, XML, SQL, Restful Web Services, GitHub, Pyunit, PySpark, Pandas, Numpy, Beautiful Soup, Windows.