# Name:Sunayna Salman

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**Visa:USC**

**Relocation:Open**

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**Professional Summary:**

* **Around 10 years** of experience in Analysis, Design, Development, Management, and Implementation of various standalone and client - server architecture-based enterprise application software.
* Extensive experience in developing web applications using Python, Django, Flask frameworks.
* Experience in working with several python libraries including Beautiful soup, NumPy, matplotlib, SciPy, PyQt, Scapy, SQLAlchemy.
* Have hands on experience on fetching the live stream data from DB2 to HDFS using Spark Streaming and Apache Kafka.
* Experienced in Azure IaaS, Provisioning VM's, Virtual Hard disks, Virtual Networks, Deploying Web Apps
* Experience in real time data from various data sources through Kafka data pipelines and applied various transformations to normalize the data stored in HDFS Data Lake.
* Hands-on experience with industry-standard IDEs like PyCharm, Sublime, NetBeans.
* Experience with Design, code, debug operations, reporting, data analysis and web applications utilizing Python.
* Proficient with serverless architect especially under AWS Cloud services such as Lambda, Step Functions, DynamoDB and Glue.
* Have good exposure in LAMP (Linux, Apache, MySQL, and Python) and WAMP Architectures.
* Experience in working with Python ORM Libraries including Django ORM.
* Having working Knowledge of Amazon AWS S3.
* Extensive experience in system analysis, design, development, and implementation of web-based and client/server applications using HTML, Angular JS, Bootstrap, React JS, Node JS, CSS, JavaScript, PySpark, XML, Terraform, Python, Django, Kafka, Spark, Scala.
* Expert at version control systems like Git, SVN and CVS, Migrated repos from svn to Github.
* Experience with source code testing frameworks like JUnit, PyUnit.
* Adept at automating repetitive work through Shell scripts and Python.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database.
* Experienced with designing and implementing various serverless, fully manage cloud service including S3, Lambda, CloudWatch, API Gateway, Athena, SES, SNS, SQS Step Functions, CloudWatch, Event Bridge, Glue, Kinesis Firehose and DynamoDB
* Provisioning Web Servers in AWS using different services EC2, VPC, ELB, Auto Scaling, Route53 using Cloud formation templates & AMI’s using Infrastructure as a Service (IAAS).
* Expertise with different tools in Hadoop Environment including Pig, Hive, HDFS, MapReduce, Sqoop, Spark, Kafka, Yarn, Oozie, and Zookeeper.
* Extensive experience in creation and maintenance of database objects like tables, views, materialized views, indexes, constraints and primary keys.
* Highly Skilled in debugging issues in complex applications.
* Experience in using XML, SOAP, REST web Service for inter operable software applications.
* Proficient in designing and querying the NoSQL databases like Hbase, Cassandra, MongoDB, Impala.
* Experience in all phase of SDLC like Requirement Analysis, Implementation and Maintenance, and extensive experience with Agile and SCRUM.
* Experienced with Django object-relational mapping (ORM) and effectively utilizing various databases types including MySQL, Oracle PL/SQL, SQLite3, AWS Aurora and DynamoDB)
* Highly self-motivated, good technical, communications and interpersonal skills.
* Excellent communication and inter-personal skills detail oriented, analytical, time bound, responsible team player and ability to coordinate in a team environment and possesses high degree of self-motivation and a quick learner.

**Technical Skills:**

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| --- | --- |
| Languages | Python, C, Java, SQL, PL/SQL, #C. |
| IDE s | PyCharm, Emacs, Eclipse, NetBeans, Sublime, SOAP UI |
| Web Technologies | HTML5, CSS3, XML, JavaScript, JQuery, Angular JS, Node JS |
| Databases | SQL Server, Oracle, MySQL, PostgreSQL, Cassandra, MongoDB |
| Frameworks | Django, Flask, CherryPy, web2py, Tornado, Pyramid, Robot |
| Web Servers | JBoss 4.0.5, BEA Web Logic, Web Sphere, Apache Tomcat 5.5/6.0 |
| Version Controls | SVN, VSS, CVS, Git. |
| Operating Systems | MS Windows, Linux/Unix, Sun Solaris, OS X |
| Building& Design Tools | ANT, MAVEN, Gulp, UML, JIRA |
| Methodologies | Agile, Scrum, Waterfall |

**Professional Experience:**

**Client: Bank of America, Charlotte, NC Apr 2023 – Till Date**

**Role: Sr. Full stack Python Developer**

**Responsibilities:**

* Involved in all the stages of the software development life cycle like design, development, implementation, and testing.
* Prepared scripts to ensure proper data access, manipulation, and reporting functions with R programming languages.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Proficient with NoSQL databases including MongoDB and AWS DynamoDB
* Managing Client's Confidential Azure based PaaS and IAAS environment.
* Working with container-based deployments using Docker, working with Docker images, Docker Hub and Docker registries and Kubernetes.
* Used Pandas, NumPy, Seaborn, SciPy, Matplotlib, Scikit-learn, NLTK in Python for developing various machine learning algorithms, and utilized machine learning algorithms such as linear regression, multivariate regression, naive Bayes, Random Forests, K-means, &KNN for data analysis.
* Refactoring of code and performing Sanity.
* Design, deploy and manage a Continuous Integration System which includes automated testing and automated notification of results using technologies like Ansible, Terraform, Packer, Cloud formation, Docker and Server spec.
* Performed Data Cleaning, featuresscaling, featuresengineering using pandas, and NumPy packages in python.
* Designed, configured and managed public/private cloud infrastructures utilizing Amazon Web Services (AWS), including EC2, Security Groups, Route Tables, Elastic Load Balancer, and IAM.
* Creating S3 bucket and managing the policies for S3 bucket and Storage, Backup of logs into Glacier, buckets, performed folder management in each bucket.
* Defined security groups which acted as virtual firewalls to control the incoming traffic onto one or more EC2 instances.
* Created Docker images using a Docker file , worked on Docker container snapshots, removing images and managing Docker volumes
* Administration and maintenance of Source Code Management (SCM) systems such as GIT.
* Creating RESTful web services with Flask and SQL Server.
* Used Django Kafka and Node.js to connect to databases and create Restful APIs for accessing and altering data.
* Design mass-scale ETL application with AWS Glue, S3 and DynamoDB with AWS CDK.
* Thorough understanding of IaaS, PaaS, SaaS, and public & private &hybrid Cloud.
* Maintained and developed Docker images for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in Google Cloud Platform (GCP) on Kubernetes.
* Used JIRA for Bug tracking and issue tracking.
* Developed API services in Python, NodeJS while leveraging AMQP and RabbitMQ for distributed architectures.
* Worked with Terraform to create AWS components like EC2, IAM, VPC, ELB , Security groups
* Developed Merge jobs in Python to extract and load data into MySQL database and Worked on the MYSQL data lineage process to map source to target DB, table, and column mappings using Python.
* Used R and python for Exploratory Data Analysis, A/B testing, ANOVA test, and Hypothesis test to compare and identify the effectiveness of Creative Campaigns.
* Implemented workflow sequences using scheduling tools - Apache Airflow and Autosys
* Created a Git repository and added the project to Bitbucket.
* Used Pandas, NumPy, Seaborn, SciPy, Matplotlib, Scikit-learn, NLTK in Python for developing various machine learning algorithms, and utilized machine learning algorithms such as linear regression, multivariate regression, naive Bayes, Random Forests, K-means, &KNN for data analysis.
* Responsible for design & development of Spark SQL Scripts using Python based on Functional Specifications to load data to snowflake. Implemented the workflows using Airflow in Python to automate tasks.
* Designed ETL workflow to expose to internal API end-point pairing with Lambda using DynamoDB for short-life persistent policy and S3 Select and Athena for long term persistent
* Worked as part of an Agile based development team.
* Placed data into JSON files using Python to test Django websites. Used Python scripts to update the content in the database and manipulate files.
* Developed custom airflow operators using Python to generate and load CSV files into GS from SQL Server and Oracle databases.
* Designed the MySQL database and created dynamic tables to store various performance metrics.
* Developed python framework using various Python libraries like Pandas and NumPy for Data validation
* To Implement Python code in Alteryx.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from Python using Python-MySQL connector MySQLDB. package to retrieve information.
* Wrote Python code within the Hadoop framework to solve Natural Language Processing (NLP) problems.
* Provisioning Web Servers in AWS using different services EC2, VPC, ELB, Auto Scaling, Route53 using Cloud formation templates & AMI’s using Infrastructure as a Service (IAAS).
* Worked with Terraform for automating VPCs, ELBs, security groups, SQS queues, S3 buckets, and continuing to replace the rest of our infrastructure.
* Worked on Python OpenStack APIs and used NumPy for Numerical analysis and had developed Wrapper in Python for instantiating multi-threaded application.
* Used Spark-Streaming APIs to perform necessary transformations and actions on the fly for building the anomaly detector model which gets the data from Kafka in near real time and persists into Cassandra.
* Created a responsive Dash for graph
* Implemented Db connection and deal with db in Alteryx

**Environment**: Python, Flask, Pandas, Gunicorn HTML5, CSS, Bootstrap, JSON, AJAX, RESTful webservice, SQL Server, SQLite, PyUnit, BitBucket, Jenkins, Automated CI/CD pipelines, Windows, Tableau, Alteryx.

**Client: Bank of America, Charlotte, NC Jan 2021 – Dec 2022**

**Role: Devops/Full stack Python Developer**

**Responsibilities:**

* Developed Python scripts to automate the data sampling process. Ensured the data integrity by checking for completeness, duplication, accuracy, and consistency
* Worked on data cleaning and reshaping, generatedsegmented subsets using NumPy and Pandas in Python.
* Set up databases in AWS using RDS, DynamoDB, storage using S3 bucket and configuring instance backups and archives to Glacier archives, and configured AWS Redshift for data Warehousing.
* Worked extensively with Tableau Advance analysis of Actions, Calculations, Parameters, Maps, Trend Lines, forecast, sets, groups, Background images, bins, and table calculations to develop Dashboards.
* Developed Tableau Dashboards/Story's from multiple data sources using DataBlending.
* Work on Churn Feature Normalization Airflow Job.
* Played a key role in automating the deployments on AWS using GitHub, Terraform, and Jenkins.
* Utilize AirflowBackfill feature to (re)-populate past data.
* Configured Ansible to manage AWS environments and automate the build process for core AMIs used by all application deployments including AutoScaling, and CloudFormation scripts.
* Created Ansible playbacks to deploy and automatically scale applications with minimal dependencies
* Integrated Git, Jenkins and maven in accomplishing continuous integration and configured Jenkins with Poll SCM build trigger and creating Jenkins jobs and distributing load on Jenkins server by configuring Jenkins nodes which will enable parallel builds.
* Used Dynamodb to store the data for metrics and backend reports
* Installed, tested and deployed monitoring solutions with Splunk services.
* Automated setting up server infrastructure for the Devops services using ansible,shell and python scripts.
* Experience in python, Jupyter, Scientific computing stack (NumPy, SciPy, pandas, and Matplotlib).
* Representation of the system in hierarchy form by defining the components, subcomponents using Python, and developed a set of library functions over the system based on the user needs.
* Performed troubleshooting, fixed, and deployed many Python bug fixes of the two main applications that were the main source of data for both customers and internal customer service team.
* Worked on Anti Money Laundering (AML) application to develop new modules to build reports for identifying various accounts and activities.
* Generating various capacity planning reports (graphical) using Python packages like NumPy, Matplotlib.
* Designed and developed Cloud Service projects and deployed to Web Apps, PaaS, and IaaS
* Created the Django dashboard with a custom look and feel for end-user after a careful study of the Django admin site and dashboard. For the manipulation of data from the database various queries using SQL were written and created a database using MYSQL.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple name spaced versions.
* Deployed Python scripts with Cloud Formation templates to automate installation of Auto scaling, EC2, VPC, DynamoDB, cloud formation, Beautiful soup and other services.
* Creating RESTful web services with Flask and SQL Server.
* Worked on Hadoop ecosystem
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Nifi integration for dynamic file management and uploading, downloading and reading files as per requests.
* Crafted Kafka wrapper functions for CRUD
* Developed analytical component using Scala and KAFKA.
* Consumed the data from Kafka using Apache spark.
* Experience in creating Kafka producer and Kafka consumer for Spark streaming.
* Worked on API’s for ElasticSearch. POC for dynamic implementation and create a dynamic container that works according to the request for search data in the cluster.
* Used JIRA for Bug tracking and issue tracking.
* Expert in performance monitoring tools like Iaas, AWS CloudWatch and stack driver.
* Created a Git repository and added the project to Bitbucket.
* Worked as part of an Agile based development team.
* Placed data into JSON files using Python to test Django websites. Used Python scripts to update the content in the database and manipulate files.
* Used Flask configuration to manage URLs and application parameters.
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization.
* Performed dynamic UI designing with HTML5, CSS3, less, Bootstrap JS, JavaScript, JQuery, JSON and AJAX.Utilized PyUnit, the Python Unit test framework, for all Python applications and used Flask Database API's to access database objects.
* Assisted the development team in sending the correct data via query strings using SQL Server as the back-end for storing data.
* Implemented AWS solutions using EC2, S3, DynamoDB, EBS, Elastic Load Balancer, Auto scaling groups.
* Implemented RESTful Web-services for sending and receiving the data between multiple systems.

**Environment**: Python, Flask, Pandas, Gunicorn HTML5, CSS, Bootstrap, JSON, AJAX, RESTful webservice, SQL Server, SQLite, PyUnit, BitBucket, Jenkins, Automated CI/CD pipelines, Windows.

**Client: Simmons Bank, Pine Bluff, AR Jul 2019 – Dec 2020**

**Role: Lead Python Engineer/Developer**

**Responsibilities:**

* Utilized Python libraries like wxPython, NumPy, SciPy, Web2py.
* Developed views and templates with Python and Django's to create a user-friendly website interface.
* Developed a fully automated continuous integration system using Git, Jenkins, MySQL and custom tools developed in Python and Bash.
* Creating RESTful web services with Django MySQL, and MongoDB.
* Created Data tables utilizing PyQt to display customer and policy information and add, delete, update customer records.
* Development of Python APIs to dump the array structures in the Processor at the failure point for debugging.
* Developed data transition programs from DynamoDB to AWS Redshift (ETL Process) using AWS Lambda by creating functions in Python for the certain events based on use cases.
* Implemented responsive user interface and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript, JQuery.
* Researched various Network, Storage, Compute technologies, and IaaS provisioning software to include: Cloud Stack, OpenStack, OnAPP, NetIQ, and BMC.
* Developed CI/CD system with Jenkins on Google's Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Loading spilling data using Kafka, Flume and real time Using Spark and Storm.
* Created a Git repository and added the project to GitHub.
* Maintained and developed Docker images for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in Google Cloud Platform (GCP) on Kubernetes.
* Used automation Jenkins for continuous integration on Amazon EC2.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud. Implemented AWS high-availability using AWS Elastic Load Balancing (ELB), which performed balance across instances.
* Created Terraform scripts for EC2 instances, Elastic Load balancers and S3 buckets.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Develop Deep Convolution and Recurrent Neural Networks with TensorFlow and have significant Risk Management & Quantitative
* Worked with modules like MongoDB and mongoose for database persistence using NodeJS to interact with DynamoDB.
* Performed Kafka analysis, feature selection, feature extraction using Apache Spark Machine.
* Deployed PyTorch sentiment analysis model and created a gateway for accessing it from a website.
* Performed 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.
* Implement ML/NLP solutions for clients including models for process optimization, image detection, anomaly detection, automation/pre-emption, recommender systems, fraud detection, text/sentiment analysis, dialog systems
* Implemented Terraform to manage the AWS infrastructure and managed servers using configuration management tools like Chef and Ansible.
* Automated RabbitMQ cluster installatiofcins and configuration using Python/Bash.
* Implemented continuous integration using integration tool Jenkins.
* Used JIRA for Bug tracking and issue tracking.
* Developed REST Microservices which are like API’s used for Home Automation. They also keep the data in synchronization between two database services.
* Wrote and executed various MySQL database queries from python using Python-MySQL connector and MySQL DB package.
* Developed Micro services using Go language and worked on test cases and also on various Python application development and CI/CD pipeline tools like GitHub, Jenkins, and AWS.
* Written test cases using PyUnit testing for better manipulation of test scripts.
* Worked as part of an Agile/Scrum based development team and exposed to TDD approach in developing applications.

**Environment**: Python, Django, CherryPy, HTML5, CSS, Bootstrap, JSON, AJAX, RESTful webservice, MySQL, SQLite, Cassandra, AWS (EC2, S3), PyUnit, GITHUB, Windows.

**Client: Conn's HomePlus, Woodlands, TX Aug 2017 – Jun 2019**

**Role: Python Developer**

**Responsibilities:**

* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web-based solution.
* 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.
* Placed data into JSON files using Python to test Django websites. Used Python scripts to update the content in database and manipulate files.
* Used Kubernetes to deploy scale, load balance, and worked on Docker Engine, Docker HUB, Docker Images, Docker Compose for handling images for installations and domain configurations.
* Used Django configuration to manage URLs and application parameters.
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization.
* Performed dynamic UI designing with HTML5, CSS3, less, Bootstrap JS, JavaScript, JQuery, JSON and AJAX.Utilized PyUnit, the Python Unit test framework, for all Python applications and used Django Database API's to access database objects.
* Assisted the development team in sending the correct data via query strings using PostgreSQL as the back-end for storing data.
* Kubernetes is being used to orchestrate the deployment, scaling and management of Docker Containers.
* Worked on Spark streaming using Apache Kafka for real time data processing and implemented Oozie job for daily import.
* Developed analytical component using Scala and KAFKA.
* Experience in creating Kafka producer and Kafka consumer for Spark streaming.
* Design and implemented custom Bash scripts for controlling the data flow from the PostgreSQL database.
* Implemented RESTful Web-services for sending and receiving the data between multiple systems.
* Used PyQuery for selecting particular DOM elements when parsing HTML.
* Designed object model, data model, tables, constraints, necessary stored procedures, functions, triggers, and packages for Oracle Database.
* Developed and executed User Acceptance Testing portion of test plan.
* Generated Django forms to record data of online users and used PyTest for writing test cases.

**Environment**: Python, Django, HTML5, CSS, XML, AJAX, Bootstrap, JQuery, Pyquery, PostgreSQL, Eclipse, Git, Linux, Shell Scripting.

**Client: American Fidelity Insurance, Oklahoma City, OK Apr 2013 – Jul 2017**

**Role: Python Developer**

**Responsibilities:**

* Developed entire frontend and backend modules using Python on Django Web Framework.
* Designed and developed data management system using MySQL. Built application logic using Python 2.7.
* Worked on registering URLs in app URLs and linking them to views.
* Developed web application using MVC architecture with the help of Django framework.
* Used Django APIs for database access and worked on databases like MySQL, Postgres.
* Developed shopping cart for Library and integrated SOAP web services to access the payment.
* Designed and developed a horizontally scalable APIs using Python, Django.
* Worked on python data structures lists, tuples and dictionaries.
* Created Several XML Schemas and Developed Stored PL/SQL Procedures and Packages to automatically create and drop table indexes.
* Used GIT hub for version control
* Participated in requirement gathering and worked closely with the team in designing and modelling.
* Involved in Agile Methodologies and SCRUM Process.

**Environment**: Python, JavaScript, Django Framework, HTML, CSS, SQL, MySQL, SOAP, JQuery, Apache web server.

**Education: Bachelor of Commerce - University of Karachi (2002) Pakistan**