***Naveen Kumar***

***Sr. Python Developer***

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## Professional Summary:

* **Around 8+ years** of experience in Analysis, Design, Development, Management, and Implementation of various stand-alone, client-server enterprise applications using **Python, Django, Flask.**
* Experienced in developing web-based applications using Python, Django, QT, C++, XML, Mongo DB, CSS, JSON, HTML, APP SYNC, DHTML and JavaScript.
* Experience in developing web applications implementing Model View Controller architecture using Django, Flask, Tornado, and Pyramid Python web application frameworks
* Experience in web services with protocols SOAP and REST and on REST APIs in Python and MongoDB, providing backend capabilities to interface with OpenStack and other downstream APIs.
* Extensive experience in all phases of the Software Development Life Cycle (SDLC). Technical exposure in diverse technologies like Python, Django, PostgreSQL, container, Linux, Java, MES, LIMS, MySQL and AWS LAMBDA, snowflake.
* Experienced in working with Python packages like NumPy, Pandas, Beautiful Soup, Scikit-learn, Requests, matplotlib, PyTables, and SciPy. Experienced in automation using the Python Scripting language.
* Experience in test automation and continuous delivery of web applications, client-server applications, and REST APIs Testing with Python.
* Experience to develop Python modules and software using REST API, Backend database, Python Linux command line tools and extensive automation frameworks from scratch.
* Experience in implementation of Python libraries Pandas, NumPy, SciPy, Py Tables, SQL Alchemy, matplotlib, and URL lib in various tasks.
* Experience in a Python-based environment, along with data analytics, data wrangling and Excel data extracts.
* Expertise in establishing database connections for Python by configuring packages like MySQL - Python and running various queries.
* Experienced in WAMP (Windows, Apache, Python/PHP), and LAMP (Linux, Apache, MySQL, Mongo DB, Graph QL, Python/PHP) Architecture.
* Strong experience in developing software in Python and IDEs – Visual Studio and PyCharm.
* Proficient in writing Python scripts for ETL processes and scheduling using CRON and Skilled in optimizing and monitoring data pipelines to ensure optimal performance, scalability, and reliability.
* Good experience in software development in Python using libraries like Pandas, NumPy, SciPy, Faker, Boto3, Psycopg2, Hashlib, BeautifulSoup, Matplotlib, SQL Alchemy, Multiprocessing, Multithreading, Pytest, Urllib2, PySide, SciPy, PyTables, MySQL DB for database connectivity, etc.
* Experience in processing large datasets with Spark using Scala and PySpark.
* Experience with Python for data analysis, wrangling, manipulation, encryptions, and masking.
* Experience developing web-based applications using Python, Django, Flask, PHP, JavaScript, AWS, MySQL, PostgreSQL, Oracle, and MongoDB.
* Experience using high-level Python web frameworks like Django and Flask and implementing RESTful and SOAP web services using object-oriented programming (OOP) concepts with Python.
* Experience with Unit Testing, System Integration Testing (SIT), and User Acceptance Testing (UAT).
* Strong data manipulation skills and experience with data warehouse ETL tools and processes.
* Skilled in handling errors/exceptions and debugging/troubleshooting issues in large-scale applications.
* Experience in the Development and testing of ETL data processes.
* Experience in developing web-based applications using Python 3.x
* Good experience of software development in Python (libraries used: Beautiful Soup, NumPy, SciPy, Matplotlib, python-twitter, Pandas data frame, network, urllib2, MySQL dB for database connectivity) and IDEs - sublime text, Spyder, Pycharm, RPC frameworks, VS Code.
* Extensive experience in system analysis, design, development and implementation of web based and client/server application using HTML, Bootstrap, CSS, JavaScript, XML, Python.
* Experienced in web applications development using Python, SaaS, J Query while using HTML/CSS/JS,.net for server-side rendered applications.
* Good Experience in Linux Bash scripting and following PEP Guidelines in Python.
* Experience of using Python modules like NumPy, Bigdata, Machine learning for generating complex graphical data, creation of histograms, etc.
* Skilled in Object-Oriented Design and Programming using Python and C#.
* Knowledge of cloud solutions and services such as Azure and AWS
* Good knowledge of version control software – CVS, GitHub and .Net
* Excellent experience with Python development under Linux OS and Mac OS (Ubuntu, RedHat Linux).
* Wrote python scripts to parse XML and JSON data and load the data into the database.
* Experience in developing web-based applications using Python, Django, Flask, REST, JSON, CSS, HTML5, JavaScript, Angular, and React, and good experience in using ORM.
* Experience with object-oriented programming (OOPS) concepts using Python.
* Experience in version control systems like GitLab, SVN Code Commit, and Bit Bucket to keep the versions and configurations of the code organized.
* Good working knowledge in Unix and Linux shell environments using command-line utilities.
* Experienced in Agile Methodologies, Scrum stories, sprints, involved daily standup meetings, and pair programming to produce quality deliverables within time.
* Experience in implementing server-side technologies with REST/SOAP API and MVC design patterns in the Django framework.
* Vigorous knowledge in progressing web applications and effectuating Model View Control architecture using the Django web application framework.
* Experience in test automation scripting using Selenium Web driver, Pytest, and Unit test frameworks.
* Experience in full software development life cycle (SDLC), architecting scalable platforms, object-oriented programming, database design, and agile methodologies.
* Experienced in WAMP (Windows, Apache, MYSQL, and Python) and LAMP (Linux, Apache, MySQL, and Python) Architectures.
* Good knowledge in front end technologies such as HTML5, CSS3, Bootstrap, JavaScript, Node.JS.
* Good knowledge in Object-Oriented Analysis, Design, and development of applications using Core Java, Servlets, JSP, JDBC, RMI, Multithreading, Eclipse, and Tomcat.
* Worked on Python Testing frameworks like zone, pytest, and Robot framework.
* Familiar with Automating, Configuring, and deploying instances on AWS, Azure environments, and Data centers, also familiar with EC2, d watch, Cloud Formation, and managing security groups on AWS.
* Good Experience in Linux Bash scripting and following PEP Guidelines in Python.
* Good understanding of NoSQL databases such as Redis, and Apache Cassandra.
* Proficient in writing SQL Queries, Stored procedures, functions, packages, tables, views, and triggers using relational databases like Oracle, DB2, MySQL, and MS SQL Server.
* Expertise in Object-Oriented design and coding and good knowledge of various Design Patterns and UML.
* Experienced in developing and executing manual and automated tests in different platforms using Python, Pytest/Unit test/ library.
* Good understanding of SQL concepts and hands-on experience with databases like Teradata, and Oracle.
* Good analytical and problem-solving skills and ability to work on my own besides being a valuable and contributing team player.
* Had a good experience with tools like Bugzilla, Jira, and Confluence.
* Excellent interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks, and work well in a team environment. Self-motivated with a good work ethic and teamwork skills.

## Technical Skills:

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| --- | --- |
| **Programming Languages** | Python, Java, Core Java, JavaScript, C, R, C++, Golang, PHP, SQL Shell programming, PL/SQL. |
| **Web Technologies** | HTML, XHTML, CSS, JavaScript, NodeJS, jQuery, AJAX, AngularJS, Angular, ReactJS, Bootstrap, XML. |
| **Frameworks** | Django, Flask, Rest Framework, Pylons, Webware, Flask Web framework, web2py, Docker, Kubernetes, CSS Bootstrap. |
| **Python / Machine Learning Libraries** | NumPy, SciPy, Scikit, Pandas, Jupiter, Matplotlib, Beautiful Soup, Seaborn, Requests, Urllib2, Python-twitter, Tensor Flow, Keras, PyTorch, Anaconda. |
| **Databases** | MySQL, Radis, SQL databases like MS-SQL, SQL Server, Oracle, My SQL and NoSQL dbs like Dynamo DB, MongoDB, PostgreSQL. |
| **Application Servers** | IBM Web Sphere, Apache Tomcat, IIS, Glassfish. |
| **Natural Language Processing (NLP) libraries:** | NLTK, SpaCy |
| **IDE's/ Development Tools:** | PyCharm, Eclipse, emacs, vi |
| **Deep learning frameworks:** | Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN) |
| **SQL and NoSQL databases:** | MySQL, Graph QL, PostgreSQL, MongoDB, DynamoDB, TimescaleDB, Cassandra. |
| **Cloud Technologies:** | SnowSQL, Snowpipe, AWS LAMBDA, snowflake, EC2, CLOUDWATCH, REDSHIFT, Lambda, snowflake. |
| **Cloud computing platforms:** | AWS LAMBDA, snowflake, Azure, GCP |
| **Bug Tracking Tools:** | Trac, JIRA, Bugzilla, MATLAB, The Bug Genie. |
| **Bigdata Technologies** | Spark, Hadoop |
| **Web Services** | AWS - EMR, EC2, S3, RDS, Azure Databricks, Azure Data Factory, GCP |
| **Scripting Languages** | CSS, AJAX, JavaScript, jQuery, PHP, PowerShell Scripting |
| **Version Control** | GitLab, GitHub, SVN, CVS, Amplify & GIT, AmplifyHub |
| **Deployment Tools** | Heroku, Jenkins, Ansible |
| **Operating Systems** | UNIX, Linux, Windows, Mac OS |
| **Testing Tools** | Selenium, HP QC, HP QTP, Python Unit test, Google Test, Google Moc, Ansible |
| **Methodologies** | Agile, Scrum, Waterfall, and Iterative |
| **Other Tools:** | Swim charts, Excel, MS Word, Visio, PowerPoint, Oracle data Management suite, Google Analytics, SharePoint, Salesforce CRM, Salesforce SFA, Apex Language, Apex Classes/Controllers, Apex Triggers, SOQL, SOSL. |

# **Professional Experience**

# **Comcast - Philadelphia, PA****August, 2022 – Present**

## Role: Senior Python Developer

## Responsibilities:

* Associated with various phases of the application's Software Development Life Cycle (SDLC) like requirement gathering, Design, Analysis, and Code development.
* Implemented PySpark using Python and utilizing data frames and temporary table SQL for faster processing of data.
* Developed web applications within a Python and Java environment that includes distributed web servers and a MySQL database cluster. Utilize PyUnit, the Python unit test framework, for all Python applications.
* Designed UI interfaces using Django Templates, HTML, APP SYNC, CSS and Bootstrap.
* Developed REST-based Applications using Python, Django, Angular, CSS, HTML, APP SYNC, JavaScript and Node.js.
* Developed a fully automated continuous integration system using GIT, Amplify, EMR Gerrit, Jenkins, AWS Glue MySQL and custom tools developed in Python and Bash.
* Developed data transition programs from DynamoDB to AWS LAMBDA, snowflake Redshift (ETL Process) using AWS LAMBDA, snowflake, by creating functions in Python for certain events based on use cases.
* Designed a Python script to load transformed data into cloud services (AWS LAMBDA, snowflake, Azure, and GCP).
* Developed a fully automated continuous integration system using Gerrit, Jenkins, AWS Glue MySQL and GIT, Amplify custom tools developed in Python.
* Designed and developed a data management system using MySQL. Built application logic using Python.
* Developed a new Widget-app module for MMD 2.0 using React.js with Redux architecture and ES6.
* Designed and developed a horizontally scalable API using Python Flask
* Developed web applications within a Python and Java environment that includes distributed web servers and a MySQL database cluster. Utilize PyUnit, the Python unit test framework, for all Python applications.
* Developed views and templates with Python and Django's view controller and templating language to create
* Designed the front end of the application using Python, HTML, APP SYNC, CSS, AJAX, GCP, .NET, OpenSearch Graph QL, JSON and JQuery. Worked on the backend of the application.
* Developed frontend and backend modules using Python on Django including Tastypie Web Framework using GIT, Amplify.
* Developed Informatica10.2 ETL to apply Python programs, Unix scripts and Power Shell scripts for enterprise financial data integration.
* Developed Python application for Google Analytics aggregation and reporting
* Developed views and templates with Python and Django view controller and templating language to create a user-friendly interface using MVC architecture.
* Developed GUI using Python and Django for dynamically displaying the test block documentation and other features of Python code using a web browser.
* Developed intranet portal for managing Amazon AWS LAMBDA, and snowflake EC2, CLOUDWATCH, REDSHIFT servers using Python, Tornado and MongoDB.
* Developed internal auxiliary web apps using Python Flask framework with Angular.js and Twitter Bootstrap CSS / HTML framework.
* Developed and maintained web applications using Flask and ReactJS.
* Wrote Python routines to log into the websites and fetch data for selected options.
* Worked on the integration of **RESTful APIs** and developed endpoints.
* Implemented real-time data visualization using D3.js.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface, developed monitoring and notification tools using Python, and Containerized the application using **Docker**.
* Designed and built dashboards for use in monitoring performance metrics while maintaining existing dashboards for accuracy and efficiency and incorporating changes using Tableau.
* 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.
* Worked on database design and management using MongoDB and Python applications for RISK management.
* Created **REST APIs** to store the data of online users and Automated tasks in the existing stack.
* Handled all the client-side validation using JavaScript and Worked with a marketing company to build several Django, Flask, and **Fast-API** applications.
* Responsible for creating efficient design and developing User interaction screens using HTML, CSS, JavaScript, Angular 8, and NodeJS. and Enhanced application performance by Angular 8 component-based development in view of future Angular Framework transitions.
* Performed CPE testing by utilizing libraries such as the CPE library, which allows for creating, manipulating, and matching CPE strings.
* Developed and executed manual and automated tests using Python, and Pytest/Unit test in different platforms. Involved in the **CI/CD** pipeline management for managing the weekly releases. used **Jenkins** to automate the process of building, testing, and deploying code changes.
* Worked on SQL Alchemy ORM API for accessing the database. Used Python and Django to create graphics, XML processing, data exchange, and business logic implementation.
* Developed API for using **AWS Lambda** to manage the servers and run the code in **AWS.**
* 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.
* Designed and managed **API** system deployment using a fast HTTP server and **Amazon AWS** architecture.
* Used **AWS Elastic Beanstalk** to fully manage services to deploy, run, and scale web applications including Django, Used **AWS RDS** to store and manage application data in a highly available and scalable way.
* Used **AWS S3** to store static files of Django applications like media files, user-uploaded files, and more. and used AWS.
* **CloudFront** to cache and deliver static files from Django applications running on **Elastic Beanstalk.**

## Worked on AWS Cloud services such as EC2, S3, EBS, VPC, ELB, Route53, Cloud Watch, Security Groups, Cloud Trail, IAM, Cloud Front, Snowball, RDS, and Glacier.

* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL DB. Package.
* Utilized Python libraries NLP toolkit, NumPy, Twisted, and Matplotlib to write Python scripts to parse XML documents and load the data in the database.
* Involved in the development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Developed and maintained server-side applications using Node.js.
* Performed research to explore and identify new technological platforms.

**Environment:** Python, Django, Flask, Jenkins, Apache Airflow, Angular 8, ReactJS, NodeJS, Azure Cosmos DB, Tableau, MongoDB, Restful APIs, Fast API, Selenium, Amazon AWS, Pandas, NodeJS, jQuery, Bootstrap, MySQL, Linux, Ajax, Apache, Cassandra, HTML5 and CSS, JavaScript, PHP, CPE Testing, Matplotlib.

# **Centene Corporation, St. Louis, MO April, 2021 – July, 2022**

## Role: Senior Python Developer

**Responsibilities:**

* Designed User Interfaces using BackboneJS, ReactJS, jQuery, Bootstrap, JavaScript, CSS, XML, and HTML.
* Developed a chatbot using natural language processing techniques and the OpenAI GPT-2 framework. Implemented using Python and Flask.
* Designed and developed components using Python with Django framework. Implemented code in Python to retrieve and manipulate data. Responsible for setting up Python REST API framework using DJANGO.
* Designed and maintain databases using Python and developed Python-based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL
* Designed and developed of user interfaces and client displays using JavaScript, and CSS3 and troubleshoots various issues in Python code and fix them with code enhancements.  Worked on UI using HTML5, CSS3 and Java Scripts.
* Implemented Airflow and REST API Microservices using Spring Boot, Typescript, octopus, Alation, data bricks, TeamCity, CQRS and Python 3.
* Implemented technologies in geospatial data analysis and Python programming using technologies like Kinesis, Firehose, Kafka, RabbitMQ, and ActiveMQ.
* Implementing web crawling and web scraping tasks using Front Arena and other Python-based tools.
* Responsible for the Design and maintenance of databases using Python. Developed Python-based APIs using databases like Oracle, Netezza and PostgreSQL.
* Developed a media proxy server managed through a central service. Included usage reporting and URL/Domain blacklisting. Written in Python, using Tornado and PyPy, with a Django dashboard.
* Developed scripts in Python using the Scikit-learn and Tensorflow machine learning libraries.
* Implemented map State to Props, and map Dispatch to Props for the interactions between Redux and ReactJS.
* Designed web screens for various modules using HTML, DHTML, and CSS and used JavaScript client-side validation.
* Developed dynamic Django and flask web apps utilizing CSS, HTML5, JavaScript, and MySQL and Used Django configuration to manage URLs and application parameters.

# Wrote Python routines to log into the websites and fetch data for selected options.

* Used Django Database APIs to access database objects.

# Performed CPE testing by utilizing libraries such as the CPE library, which allows for creating, manipulating, and matching CPE strings.

* Effectively followed Agile Software Development for developing the application.
* Involved in preparing technical requirements and Business requirement documents and translating business rules into business component modules.
* Convert existing PERL scripts into Python web services.
* Created CPE strings to match the CPE strings against a database to identify potential issues.

# Developed and maintained server-side applications using Node.js.

* Wrote python scripts to parse XML documents and load the data in the database.
* Involved in the CI/CD pipeline management for managing the weekly releases.
* Created a highly scalable, distributed system for running Web applications and Web services by working with architects and developers and ensuring the implementation of Restful Web services and API design.
* 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.
* Designed and managed API system deployment using fast HTTP server and Amazon AWS architecture
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation
* Utilized PyUnit, the Python unit test framework, for all Python applications.
* Designed and maintained databases using Python and developed Python-based API (RESTful Web Service) using Flask, SQLAlchemy, and PostgreSQL.
* Creating Python scripts to automate daily networking tasks (Ex. auto config generation, retrieving information from network devices, parsing data, etc.) - including a custom Fortigate firewall config generator (which included multi-threaded functionality to generate configs for multiple firewalls at once).
* Using Amazon EC2 command line interface along with Bash/Python to automate repetitive work.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of python code using a web browser
* Used Python based GUI components for the front-end functionality such as selection criteria.
* Worked on Integration of Amazon Web Services AWS with other applications infrastructure.
* Developed a fully automated continuous integration system using Django-Jenkins, MySQL, and custom tools developed in Python and Bash.
* Checked the status of deployed applications & created weekly reports needed by different teams.
* Involved in the development of RESTful Web Services for getting and sending data from the external interface in the JSON format.
* Designed and developed communication between client and server using Secured Web services such as Django-rest-framework.

**Environment:** Python, Flask, Bootstrap, SOAP, Restful APIs, NodeJS, AWS, Django, MULESOFT, Flask, ReactJS, jQuery, Bootstrap, JavaScript, JBoss, PyCharm, Oracle, XML, Java Script, CSS, CPE testing, HTML, GIT, Perl.

# **Merck and Co, West Point, PA November 2019 – March, 2021**

## Role: Senior Python Developer

**Responsibilities:**

* Written APIs for various items in each Sprint and the Backlog.
* 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.
* Designed and managed API system deployment using fast HTTP server and Amazon AWS architecture
* Setup database in AWS using RDS and configuring backups for S3 bucket.
* Experience in setting up Elastic Load Balancers (ELB's) and Auto Scaling groups on Production EC2 Instances to build Fault-Tolerant and High Availability applications.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation
* Utilized PyUnit, the Python unit test framework, for all Python applications.
* Designed and maintained databases using Python and developed Python-based API (RESTful Web Service) using Flask, SQLAlchemy, and PostgreSQL.
* Creating Python scripts to automate daily networking tasks (Ex. auto config generation, retrieving information from network devices, parsing data, etc.) - including a custom Fortigate firewall config generator (which included multi-threaded functionality to generate configs for multiple firewalls at once).
* Using Amazon EC2 command line interface along with Bash/Python to automate repetitive work.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of python code using a web browser
* Experience in Amazon Web Services (AWS) Cloud services such as EC2, EBS, S3, VPC, Cloud Watch, Elastic Load Balancer.
* Created Data tables utilizing MySQL utilized Jinja to access data and display it in the front end.
* Used Python based GUI components for the front-end functionality such as selection criteria.
* Implemented navigation rules for the application and page outcomes, written controllers using annotations.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Created Python and Bash tools to increase efficiency of application system and operations, data conversion scripts, AMQP/RabbitMQ, REST, JSON, and CRUD scripts for API Integration,
* Developed and implemented the MVC Architectural Pattern using Struts Framework including JSP, Servlets and Action classes
* Developed Python based API (RESTful Web Service) to track the events and perform analysis using Django
* Involved in development using C++, bug fixing and unit testing of the Layout commands
* Led the development of parsers for handling JSON, XML responses and JAXB binding
* Worked with JMS (java messaging service) for asynchronous communication.
* Created a Python/Django based web application using Python scripting for data processing, MySQL for the database, and HTML/CSS/JQuery and High Charts for data visualization of the served pages
* Developed web-based applications using Python, Django, XML, CSS, HTML, DHTML, JavaScript and JQuery
* Utilized Python libraries NumPy, Twisted and matPlotLib
* Developed and designed an API (RESTful Web Service).
* Used the Python language to develop web-based data retrieval systems.
* Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQLAlchemy and PostgreSQL.
* Developed web sites using Django, Python, XHTML, CSS, and JavaScript.
* Developed and designed e-mail marketing campaigns using HTML and CSS.
* Tested and implemented applications built using Python.
* Developed and tested many features for dashboard using Python, ROBOT framework, Bootstrap, CSS, and JavaScript.
* Created complex dynamic HTML UI using jQuery.
* Automated Regression analysis for determining fund returns based on index returns (Python/Excel).
* Implemented and tested python based web applications interacting with MySQL.
* Designing and implementing the architecture of the application
* Extensively worked on Python scripting and development. CSS is used to style Web pages and XHTML markup.
* Build SQL queries for performing various CRUD operations.
* Implemented Servlets to handle HTTP requests for online requests, credit card payments, registration, and bug tracking.
* Used Bootstrap for responsive design.
* Worked on the development of SQL and Stored Procedures on MYSQL
* Built the web application by using Python, J2EE, PostgreSQL, MySQL, Oracle 10g.
* Collaborating with other teams, such as product and design, to understand and implement requirements.
* Wrote a customized Python profiler for performance testing, analysis, and predictions.
* Published documentation for Confluence and SharePoint to support the APIs I wrote.

# Responsible for debugging and troubleshooting the web application, handled all the client-side validation using JavaScript, and Designed and developed a data management system using MySQL.

**Environment:** Python, Java, RESTful API, PostgreSQL, JavaScript, MySQL, GitHub, JIRA, Confluence, SharePoint, Jenkins, AMQP, RabbitMQ, REST, JSON, JSP, Servlets, Django, XML, CSS, HTML, DHTML, Jquery, JavaScript, Shell Scripts, UNIX, NodeJS, and Windows.

# **US Bank, Richfield, MN August, 2017 – October, 2018**

## Role: Python Developer

**Responsibilities:**

* Analyzed the Business Requirement Documents and made the Technical Specification Documents.
* Worked on designing, coding, and developing the application in Python using Django MVC.
* Increased speed and memory efficiency by implementing code migration to convert python code to C/C++ using Cython.
* Consumed Restful Webservices where the transmission of data is in JSON format.
* Wrote with object-oriented Python, Flask, SQL, Beautiful Soup, httplib2, Jinja2, HTML/CSS, Bootstrap, jQuery, Linux, Sublime Text, GIT.
* Apply Python library such as numpy, pandas, plotly, seaborn, PyTorch, Sklearn and TensorFlow in work to train statistical models using machine learning knowledge.
* Run various python modules using the Numba and Cuda in anaconda environment.
* Designed a novel deep learning model to identify the facial features and manipulated images of human faces using MATLAB and python framework such as TensorFlow, PyTorch on CPU and GPU.
* Wrote and executed various MYSQL database queries from python using Python MySQL connector and MySQL dB package. Wrote scripts in Python for extracting data from HTML file.
* Perform queries and mutations against a Python GraphQL API using Flask web server.
* Utilized PyUnit, the Python Unit test framework, for all Python applications.
* Experience in core AWS services (S3, EC2, ELB, EBS, Route53, VPC, Auto scaling etc.) and deployment services worked on CRUD permissions using MySQL and presented them with the beautiful wxPython widgets
* 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 and rewrote existing Python/Django modules to deliver certain format of data.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Implemented REST APIs using Python and Django framework.
* Python
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Oversee B2B Program and outreach.
* Development and maintenance of Scala applications that are executed on the Cloudera platform
* working knowledge of Scala fundamentals including programming languages, best practices
* Providing Global Search with Elasticsearch.
* Profile guided optimization using Numba JIT and Cython.
* Used JavaScript and JSON to update a portion of a webpage.
* Hands on experience working with pandas and python libraries.
* Develop consumer-based features and applications using Python, Django, HTML and Test-Driven Development (TDD).
* Designed and developed a horizontally scalable APIs using Python Flask.
* Rewrite existing Python/Django modules to deliver certain format of data.
* Used JIRA for Bug tracking and issue tracking.
* Worked as part of an Agile/Scrum based development team and exposed to TDD approach in developing applications.
* Created internal diagnostic tools using Golang and AngularJS in order to assist with customer issues. Golang and Java were used as a backend REST service while AngularJS was used for the user interface.
* Developed responsive web product features using React JS, SAS, on Golang with REST.
* Built enterprise-wide DNS historical data trending analysis tools in Go (Golang), Languages with REST API for user queries as microservice.
* Building a Command line tool to interact with RESTful API using in Golang.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML/QML format.
* Developed API modularizing existing python module with the help of PyYAML libraries.
* Written Python modules to extract/load asset data from the MySQL source database.
* Designed and implemented a dedicated MySQL database server to drive the web apps and report on daily progress.
* Developing scalable front-end user interfaces using HTML, CSS, and JavaScript, JQuery, Angular.JS and Mongo DB.
* Build SQL queries for performing various CRUD operations like create, update, read and delete.
* Used Ansible playbooks to setup Continuous integration and Continuous Delivery (CI/CD) pipeline. This primarily consists of a Jenkins and Sonar server, the infrastructure to run these packages and various supporting software components such as Maven, etc.
* Worked extensively with Bootstrap, JavaScript and JQuery to optimize the user experience.
* In order to prevent, detect and claim the duplicate member entries implemented business logic in Python.

**Environment:** Python 3.x/2.x, Django 2.x/1.x, HTML5, CSS, Golang, XML, Pandas, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Mongo DB, MS SQL Server, T-SQL, Eclipse, Git, Gitlab, GitHub, AWS, Linux, Shell Scripting.

# **Verizon - Dallas, TX May, 2016 – July, 2017**

## Role: Python Developer

**Responsibilities:**

* Analyzed the Business Requirement Documents and made the Technical Specification Documents.
* In order to prevent, detect and claim the duplicate member entries implemented business logic in Python.
* Re-designed various modules for executing changes and made efficient system.
* Taking the raw and non-python friendly data from a S3 of a remote EC-2 instance.
* The processed data is then passed through a code that makes it to a python friendly JSON which makes the data more accessible without heavy computing (extra computational power with cloud [AWS, GCP)
* Created Map Reduce programs in Python to reconcile the existing member history and new files.
* Developed dynamic web pages to view the reports generated utilizing Django Framework.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* By utilizing Python on Django Web Framework developed entire frontend and backend modules.
* Used Django configuration to manage URLs and Application Parameters.
* Written Python Scripts to parse XML documents and load the data in database.
* Worked with JSON based REST Web Services and Amazon Web Services (AWS).
* Utilized Jenkins to deploy the Django application and run unit tests.
* Developed tools using Python, Shell Scripting, and XML to automate some of the menial tasks.
* Utilized JavaScript and jQuery for validating the input given to the user interface.
* Utilized various JavaScript and jQuery libraries, AJAX for form validation and other interactive features.
* Good exposure on developing web-based applications using Python, Django.
* Developed Python based API (Restful Web Service) to track sales and perform sales analysis using Flask, SQL Alchemy and PostgreSQL.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploys.
* Developed web services on cloud services such as Open Stack and AWS for project development.
* Used AWS lambda to run code virtually.
* Developed remote integration with third party platforms by using Restful web services.
* Created Python script to monitor server load performance in production environment and horizontally scale the servers by deploying new instances.
* Implemented Restful Web Services to retrieve data from client side using Micro Services architecture.
* Used JSON based and Restful API for information extraction.
* Experience in working with AWS services like S3, EBL, ESB, and Auto-scaling, cloud Watch, RDS etc.
* Managed large datasets using Panda data frames and PostgreSQL.
* Designed and developed data management system using PostgreSQL.

**Environment:** Python, PostgreSQL, **Django, S3, Auto-scaling, cloud Watch, RDS, Shell Scripting, XML, HTML, CSS, JavaScript and jQuery, REST Web Services and Amazon Web Services (AWS).**

# **Parexel International - Hyderabad, India April 2015 – April, 2016**

## Role: Python Developer

**Responsibilities:**

* Maintained program libraries, users' manuals and technical documentation.
* Managed large datasets using Panda data frames and MySQL.
* Wrote and executed various MYSQL database queries from python using Python-MySQL connector and MySQL dB package.
* Thorough knowledge in various front-end tools like HTML, CSS, JavaScript, XML, JQuery, Angular JS, and AJAX. Managed large datasets using Panda data frames and MySQL.
* Built various graphs for business decision-making using Python matplotlib library.
* Fetched twitter feeds for certain important keyword using python-twitter library.
* Used Python Library Beautiful Soup for web scrapping.
* Formulating the ETL mappings to implement the business logic. Used transformations like lookup, update strategy, expression, filter, router, aggregate, source Qualifier.
* Designed Tableau Dashboards templates for market reports by Tableau dashboards and pivot tables.
* Created reports in tableau for visualization of the data sets created and tested Impala Connectors and Worked on HDFS to store and access huge datasets within Hadoop
* Developed different kind of custom filters and handled pre-defined filters on HBase data using API. Developed user interface solutions using a Django web framework. Used Python scripts to update content in the database and manipulate files.
* Involved in building database Model, APIs, and Views utilizing Python technologies to build web-based applications.
* Developed interfaces using JavaScript, HTML technologies for several web applications to fetch and graphically present required data from database.
* Developed user interface of the web application using HTML, CSS3, and Bootstrap. Wrote custom user defined functions in JavaScript to validate application functionalities/features.
* Responsible for writing OOP code in Python for server-side scripting and Wrote code to support model-view-controller (MVC) pattern of Python Django framework in developing several modules for the application.

**Environment:** HTML, CSS, JavaScript, MySQL, Agile methodology, web scraping, HTML, Django, bootstrap, jQuery, XML, pandas SQL programming, Beautiful Soup, Tableau, Hadoop, Python programming, and R Programming.

## Educational Qualification:

* + **Bachelor’s in**