**Sr. Python Developer**

Name: Ankita Rathore

Email: ankitaic1692@gmail.com

Ph no: 619-800-5105

**Professional Summary:**

* Around 9 years of professional experience as a Python Developer experience in Design, Development, Implementation of Python, Django, Flask, Pyramid, and client - server technologies-based applications, RESTful services.
* Experienced in working with various stages of Software Development Life Cycle (SDLC) from project definition to post-deployment documentation.
* Experience with Design, code, debug operations, reporting, data analysis and Web Applications utilizing Python.
* Experienced in implementing Object Oriented Python, Hash Tables (Dictionaries) and Multithreading, Django, MYSQL, Exception Handling and Collections using Python.
* Worked with MVW frameworks like Django, Angular JS, HTML, CSS, XML, Java Script, jQuery, Bootstrap.
* Experience in JavaScript framework like NodeJS, Angular and React.
* Developed user interface by using the React JS, Flux for SPA development
* Experience in deployment of Hadoop ecosystems like Map reduce, Yarn, Pyspark, Pig, Spark, Scala, Kafka
* Strong experience 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, PyDev, Spyder.
* Hands-on experience working with various Relational Database Management Systems (RDBMS) like MySQL, Microsoft SQL Server, Oracle & non- relational databases (NoSQL) like MongoDB and Cassandra.
* Experienced in developing Web Services with Python programming language - implementing JSON based RESTful and XML based SOAP web services.
* Experience in using Design Patterns such as MVC, Singleton and frameworks such as DJANGO, Ability in handling Django ORM (Object-Relational Mapper) and SQL Alchemy.
* Proficient in Python OpenStack API'S and GUI framework - Pyjamas (for web).
* PyCharm Proficient in performing Data analysis and Data Visualization using Python libraries.
* Scaling up projects using python tools like multithreading, celery.
* Experience in using Version Control Systems like GIT, SVN and CVS to keep the versions and configurations of the code organized.
* Experience in UNIX/Linux shell scripting for job scheduling, batch-job scheduling, automating batch programs, forking, and cloning jobs.
* Exposure to CI/CD tools - Jenkins for Continuous Integration, Ansible for continuous deployment.
* Extensively worked on Hudson/Jenkins, Build Forge for continuous integration and for End-to-End automation for all build and deployments.
* Experienced with containerizing applications using Docker.
* Experience in maintaining and executing build scripts to automate development and production builds.
* Experience in Amazon Web Services (AWS) cloud platform like EC2, Virtual private clouds (VPCs), Storage models (EBS, S3, instance storage), Elastic Load Balancers (ELBs).
* Experienced in developing API services in Python/Tornado, while leveraging AMQP and RabbitMQ for distributed architectures.
* Experience with Unit testing/ Test driven Development (TDD), Load Testing.
* Experienced in building tools such as ANT, Apache MAVEN, and JENKINS.
* Experience in deploying applications in heterogeneous Application Servers TOMCAT, Web Logic and Oracle Application Server.
* Good Experience on testing tools like JIRA and Bugzilla for bug tracking.
* Excellent interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in team environment.
* Experience with Unit testing/ Test driven Development (TDD), Load Testing using various Testing Tools/Frameworks such as Robot, PyBuilder, Selenium (Selenium Web driver, IDE), Appium, PyTest, and Nose.
* Experience in working with different operating systems Windows, Linux (Ubuntu) and UNIX.

**Technical Skills:**

|  |  |
| --- | --- |
| Programming Languages | Python 2.X, Python 3.X, C, C++, Java, GoLang, SQL |
| Python Web Frameworks | Django, Pyramid, Flask, web2Py, |
| Web Technologies | HTML, DHTML, React JS, jQuery, XML, XSLT, CSS, JSON, AJAX, Bootstrap, NodeJS,React |
| Editors/IDEs | PyCharm, PyDev Eclipse, Net beans, MS Visio, Sublime Text |
| Application/Web Servers | WebSphere, Web logic, Apache Tomcat 5.5,6.0,8.0, NGINX |
| Web Services | SOAP, REST, AWS |
| Testing | Junit, POSTMAN |
| Methodologies | Agile, Waterfall, SCRUM |
| Version Control | SVN, CVS, Git |
| Build/CI Tools | Maven, Log4j, Jenkins, GNU, Apache Ant, Apache Maven, Buck, Bit-Bake, Boot, Grunt |
| Databases | MySQL, PLSQL, Oracle, Microsoft SQL, PostgreSQL, MongoDB |
| Operating Systems | Windows, Linux, UNIX |

**Work Experience:**

**Client: Intuit, CA Sept 2023 - Till date**

**Role: Sr. Python Developer**

**Responsibilities:**

* Gathered and Analysed business requirements for Application build.
* Gathering requirements and translating the Business details into Technical design.
* Participated in all the stages of software development lifecycle (SDLC) like design, testing development and implementation.
* Developed entire frontend and backend modules using Python on Django Web Framework by implementing MVC architecture.
* Developed the tools using Python Django and used MongoDB for databases. Parsers written in Python for extracting useful data from the design data base. Used Parse kit (Enigma.io) framework for writing Parsers for ETL extraction.
* Implemented responsive user interface and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript, Bootstrap, jQuery.
* Developed application components using spring, Spring-Data, Spring Boot, NodeJS and PL/SQL.
* Worked in using React JS components, Forms, Events, Keys, Router, Animations and Flux concept.
* Transfer and analyse the data using Pyspark,Hive,based on ETL mapping.
* Used Angular 8 router module for implementing routing ,imperative routing and guards
* Extensively worked with spark Data frames for ingesting data from flat files into RDD's to transform unstructured data and structured data.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Experience in creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch.
* Setup Docker on Linux and configured Jenkins to run under Docker host.
* Developed various APIs for Django applications using Django-tasty pie.
* Used JIRA to build an environment for development.
* Developed Wrapper in Python for instantiating multi-threaded application.
* Creating RESTful web services for Catalog and Pricing with Django MVT, MySQL, and MongoDB.
* Fixed bugs, providing production support, enhanced applications by improving code reuse and performance by making effective use of various design patterns.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS).
* Developed web application using React.
* Implemented monitoring and established best practices around using Elasticsearch and used AWS Lambda to run code without managing servers.
* Front-end web development using HTML/CSS, jQuery, Bootstrap as well as back-end development using Golang and SQL.
* Used Python based GUI components for the front-end functionality such as selection criteria. Administration of dedicated collocated RHEL 4 machine and configured complex Apache configuration files.
* Experienced in building a Command line tool to interact with RESTful API using in Golang.
* Familiar with UNIX / Linux internals, basic cryptography & security.
* Generated graphical reports using python package NumPy and Matplotlib.
* Implemented task object to interface with data feed framework and invoke database message service setup and update functionality.
* 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.

**Environment:** Python 3.4/2.7, Django 1.7, CherryPy, Golang, HTML5, CSS, Bootstrap, JSON, JavaScript, NodeJs,AJAX, RESTful web service, MongoDB, MySQL, jQuery SQLite, Elastic search,Pyspark Docker, Windows 12 Server,Angular, AWS (EC2, S3), PyUnit, Jenkins, Selenium Automation Testing.

**Client: Honeywell, CA May 2021 – Aug 2023**

**Role: Python Developer**

**Responsibilities**:

* Gathering requirements and translating the Business details into Technical design.
* Participated in all the stages of software development lifecycle (SDLC) like design, testing development and implementation.
* Developed entire frontend and backend modules using Python on Django Web Framework by implementing MVC architecture.
* Developed the tools using Python Django and used MongoDB for databases. Parsers written in Python for extracting useful data from the design data base. Used Parse kit (Enigma.io) framework for writing Parsers for ETL extraction.
* Extensively worked with spark Data frames for ingesting data from flat files into RDD's to transform unstructured data and structured data.
* Worked on MongoDB database concepts such as locking, transactions, indexes, replication, schema design.
* Experience in creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch.
* Setup Docker on Linux and configured Jenkins to run under Docker host.
* Used JIRA to build an environment for development.
* Developed Wrapper in Python for instantiating multi-threaded application.
* Developed web application using React.
* Creating RESTful web services for Catalog and Pricing with Django MVT, MySQL, and MongoDB.
* Developed consumer based features and applications using Python and Django in test driven development and pair based programming.
* Managed large datasets using Pandas data frames and MySQL
* Designed and developed Restful services for both consumer and producer using Django,Gunicorn,Flask.
* Worked on data science architectures, design patterns and modules such as Keras,TensorFlow, ScikitLearn.
* Fixed bugs, providing production support, enhanced applications by improving code reuse and performance by making effective use of various design patterns.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS).
* Developed web application using React.
* Developed user interface by using the React JS, Flux for SPA development.
* Implemented micro services architecture and communication between services using RESTful API for synchronous communication and Apache KAFKA for asynchronous communication
* Implemented monitoring and established best practices around using Elasticsearch and used AWS Lambda to run code without managing servers.
* Front-end web development using HTML/CSS, jQuery, Bootstrap as well as back-end development using Golang and SQL.
* Used Python based GUI components for the front-end functionality such as selection criteria. Administration of dedicated collocated RHEL 4 machine and configured complex Apache configuration files.
* Experienced in building a Command line tool to interact with RESTful API using in Golang.
* Familiar with UNIX / Linux internals, basic cryptography & security.
* Generated graphical reports using python package NumPy and Matplotli
* Implemented task object to interface with data feed framework and invoke database message service setup and update functionality.
* 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.

**Environment:**Python 3.4/2.7, Django 1.7, CherryPy, Golang, HTML5, CSS, Bootstrap, JSON, JavaScript, React, AJAX, Microservices, RESTful webservice, MongoDB, MySQL, jQuery SQLite, Elasticsearch, Docker, Windows 12 Server, AWS (EC2, S3), PyUnit, Jenkins, Selenium Automation Testing.

**Client: Xcel Energy, India Nov 2018 - Dec 2020**

**Role: Python Developer**

**Responsibilities:**

* Gathering requirements and translating the Business details into Technical design.
* Participated in all the stages of software development lifecycle (SDLC) like design, testing development and implementation.
* Developed the tools using Python Django and used MongoDB for databases. Parsers written in Python for extracting useful data from the design data base. Used Parse kit (Enigma.io) framework for writing Parsers for ETL extraction.
* Implemented responsive user interface and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript, Bootstrap, jQuery.
* Extensively worked with spark Data frames for ingesting data from flat files into RDD's to transform unstructured data and structured data.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Experience in creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch.
* Setup Docker on Linux and configured Jenkins to run under Docker host.
* Developed various API’s for Django applications using Django-tasty pie.
* Used JIRA to build an environment for development.
* Developed Wrapper in Python for instantiating multi-threaded application.
* Creating RESTful web services for Catalog and Pricing with Django MVT, MySQL, and MongoDB.
* Worked on data science architectures, design patterns and modules such as Keras,TensorFlow, ScikitLearn.
* Fixed bugs, providing production support, enhanced applications by improving code reuse and performance by making effective use of various design patterns.
* Deployed and monitored scalable infrastructure on Amazon web services (AWS).
* Front-end web development using HTML/CSS, JQuery, Bootstrap as well as back-end development using Golang and SQL.
* Used Python based GUI components for the front-end functionality such as selection criteria. Administration of dedicated collocated RHEL 4 machine and configured complex Apache configuration files.
* Experienced in building a Command line tool to interact with RESTful API using in Golang.
* Familiar with UNIX / Linux internals, basic cryptography & security.
* Generated graphical reports using python package Numpy and Matplotlib.
* Implemented task object to interface with data feed framework and invoke database message service setup and update functionality.
* 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.

**Environment:**Python 3.4/2.7, Django 1.7, CherryPy, Golang, HTML5, CSS, Bootstrap, JSON, JavaScript, AJAX, RESTful web service, MongoDB, MySQL, jQuery SQLite, Elastic search, Docker, Windows 12 Server, AWS (EC2, S3), PyUnit, Jenkins, Selenium Automation Testing.

**Client: Standalone IT Solutions, India Aug 2017 - Oct 2018**

**Role: Python Developer**

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) of the application like Requirement gathering, Design, Analysis and Code development.
* Developed GUI HTML, XHTML, AJAX, CSS, and JavaScript (jQuery).
* Built application logic using Python, used the Django Framework to develop the application.
* Used Django APIs for database access.
* Description Bluetooth enabled camcorder Embedded in a headset to enable hands-free audio and video recording with optical zoom capability.
* Wrote Python scripts to parse XML documents and load the data in database.
* Utilized PyQt to provide GUI for the user to create, modify and view reports based on client data.
* Used Python based GUI components for the front-end functionality such as selection criteria.
* Developed monitoring and notification tools using Python.
* Participated in requirement gathering and worked closely with the architect in designing and modelling.
* Created Data tables to display customer information and add, delete, update customer records using Python, MySQL, and XHTML.
* Used PyQt for the functionality filtering of columns helping customers to effectively view their transactions and statements. Implemented navigation rules for the application and page outcomes, written controllers using annotations.
* Written queries in HQL and Native SQL and criteria API.
* Added the navigations and paginations and filtering columns and adding and removing the desired columns for view utilizing Python based GUI components.
* Implemented marshalling and UN marshalling XML to HTML and HTML to XML.
* Created PyUnit test scripts and used for unit testing.
* Actively participated in System Testing, production support and maintenance/patch deployments.
* Worked on RUP development environment and used Rational ClearCase for versioning.
* Used jQuery for selecting DOM elements when parsing HTML.
* Developed SQL Queries, Stored Procedures, and Triggers Using Oracle 9i SQL, PL/SQL.
* Developed test cases using Python unit test, pylint and nose.
* Apache Maven tool has been used for the build and deploy the application. Monitored the Error logs using Log4J and fixed the problems.
* Followed Agile/SCRUM software development methodologies.
* Performed a thorough unit testing and resolved several data related issues before migration to production.

**Environment: Python, HTML, JavaScript, Ajax, PyQT, PyUnit, PL/SQL, and Oracle SQL Developer.**

**Client: TPDDL, India Mar 2016 - July 2017**

**Role: Python Developer**

**Responsibilities:**

* Developed and designed Python based API (RESTfulWeb Service) to interact with company’s website.
* Successfully implemented Django framework to design server applications.
* Wrote Python code and actively participated in the procedure to automate processes.
* Build and test functionality within a production pipeline.
* Involved in building database Model, APIs and Views utilizing Python, to build an interactive web-based solution.
* Inspected configuration, checked configuration compliance, test IT Controls functionality, and inspected logs. Reviewed signatures within IDS/IPS tools (Snort) to ensure signatures are up to date to minimize false positive and false negative in the System.
* Developed CMD Batch scripts to automate the ETL loading process.
* Efficiently performed all backend tasks from OPS up to the REST API interface/Portal frontend single handily.
* Developed Business Logic using Python on Django Web Framework.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* supervisors, artists, systems administrators, and production to ensure production deadlines are met.
* Used Django configuration to manage URLs and application parameters.
* Utilized PyQt to provide GUI for the user to create, modify and view reports based on client data.
* Created PyUnit test scripts and used for unit testing.
* Developed Mergejobs in Python to extract and load data into MySQL database.
* Created a Git repository and added the project to GitHub.
* Utilized Agile process and JIRA issue management to track sprint cycles.
* Interfacing with supervisors, artists, systems administrators, and production to ensure production deadlines are met.

**Environment:** Python, Django, PYQt, Python SDK, AWS, PHP, PyQuery, Apache Web Server, Git Hub, MySQL, LINUX.

**Client: KR Otis, India April 2014 - Feb 2016**

**Role: Python Developer**

**Responsibilities:**

* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web-based solution.
* Responsible for setting up Python REST API framework using Django.
* Developed views and templates with Python and Django view controller and templating language to create a user-friendly website interface.
* Developed web applications in Django Framework model view control (MVC) architecture.
* Involved in Python OOP code for quality, logging, monitoring, and debugging code optimization.
* 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.
* Integrated GCP services into Python applications using GCP SDKs and APIs, such as IAM APIs for authentication and access control.
* Deployed Python applications on Google Kubernetes Engine (GKE), leveraging horizontal scaling, load balancing, and managed SSL certificates for improved performance and reliability.
* Utilized GCP monitoring and logging tools like Stackdriver to set up centralized logging and build custom monitoring dashboards for Python applications running on GCP.
* Implemented robust error handling and logging mechanisms in batch job scripts, resulting in quicker identification and resolution of issues.
* Developed Python batch processors to consume and produce various feeds.
* Design and documentation of REST APIs using Django Rest framework for collection and retrieval of high-volume data which is results of search query.
* Used AWS to build cloud instances EC2, storage buckets S3, RedShift, Security Groups, VPC etc.
* Wrote Python scripts to gather data from different vendors and created S3 buckets to store files.
* Developed Business Logic using Python on Django Web Framework.
* Developed Merge jobs in Python to extract and load data into MySQL database.
* Successfully migrated the Django database from SQLite to MySQL with complete data integrity.
* Used jQuery and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Used jQuery for selecting particular DOM elements when parsing HTML.
* Worked on UI using HTML5, CSS3 and Java Scripts.
* Used GitHub for version control.
* Attended everyday Enterprise Workflow Stand-Up meeting to provide current status, thus implementing Agile (Scrum) Methodology with Test Driven Development.

**Environment**: Python 3.x, Django, Django Rest framework, AWS, SQLite, MySQL, and PostgreSQL, HTML5, CSS3, and JavaScript, jQuery and Ajax, GitHub, Shell scripting and XML, Agile (Scrum) Methodology, Test-driven development