**Python Developer**

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**Professional Summary:**

* Around 11+ 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, **Pandas**data frame, networkx, urllib2, MySQLdB 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 **SQLAlchemy**.
* 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:**

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| --- | --- |
| **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: Centene Corp Healthcare, MO**   **Oct 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: Arbella Insurance, MA May 2022 - Sept 2023**

**Role: Sr. 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: Infineon Technologies, India Apr 2019 - Nov 2021**

**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**).
* Implemented monitoring and established best practices around using **Elastic search**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, AJAX, RESTful web service, MongoDB, MySQL, jQuery SQLite, Elastic search, Docker, Windows 12 Server, AWS (EC2, S3), PyUnit, Jenkins, Selenium Automation Testing.

**Client: Zensar Technologies, India**   **Oct 2017 - Mar 2019**

**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

**Client: Emxcel, India May 2014 - Sept 2017**

**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: KR Otis, India June 2012 - Apr 2014**

**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.