**Feroz Mohammed**

Sr. Python Developer

**Professional Summary:**

* Python, Django, Java, C, C++ Software Engineer with 6+ years of extensive experience in design, development, testing and maintenance.
* Fully conversant with Systems Development Life Cycle (SDLC). Involved in Agile, Scrum, Waterfall methodologies and extensively used Jira for maintaining project status and reports.
* Advanced knowledge in: multithreaded applications, synchronization mechanisms, distributed systems and code optimization.
* Expertise in Python, Linux shell (ksh, bash) scripting and application debugging.
* Proficient experience on ticketing tools like JIRA, Service-Now, bugzilla and their workflows.
* Experience with various source control tools like cvs, svn and git/github. Experienced in MVW frameworks like Django, Angular.js, Java Script, JQuery and Node.js.
* Developed REST Services in Django Python Framework and have developed many unit test cases in Python. Familiar with JSON based REST Web services and Amazon Web services.
* Experience in Python OpenStack API’S.
* Experienced in developing web-based applications using Python, Django, C++, XML, CSS, HTML, DHTML, JavaScript and JQuery.
* Experienced in using YAML file which is an alternate to the XML and very straight forwarded machine parable data format designed for interaction with the scripting languages such as Perl and Python.
* Experience in working with configuration management tools like PUPPET and ANSIBLE
* Installation, configuration and maintenance of Red Hat Linux servers.
* Collaborate with management to improve & customize reports related to production support.
* Experience in Cloud Integration process for configuring multiple application programs to share data in the cloud.
* Experience of OO design and end-to-end software development. Experience working on Data Structures and implementing mathematical models.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Knowledge of Linux kernel environment and understanding of system concepts in virtualization, storage, networking.
* Experience with Pandas packages Numpy, Pandas, Matplotlib and scikit-learn.
* Developed Web based and Mobile based applications. Experience in designing and developing User Interface (UI) applications.
* Worked on various REST API, SOAP API, Public API web services for data integration in Windows and Linux/Unix platforms.
* Experience with Debugger Tools such as DBX, GDB and PDB and static analysis tools like Coverity, PyLint.
* Created Python, Shell Scripts for executing SQL queries and scheduled them using crontab.
* System Integrations/Migrations include large-scale initiatives involving transition of programs to new platforms and merger of disparate systems from client companies.
* Experience in implementing business logic using Triggers, Indexes, Views, Stored procedures, Transact-SQL and in design, Normalization of the database tables.
* Experience in working Automated Testing methods. Proficient in Test Driven methodology to design, develop & test software modules.

**Technical skills:**

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| **Programming Languages & Scripts** | Python, Java, C++, SQL, PL/SQL, shell scripting |
| **Operating Systems** | Red Hat Enterprise Linux, Sun Solaris, Fedora, IBM AIX, HP-UX, Windows server, Ubuntu |
| **Python Packages** | Numpy, Matplotlib, pandas, scikit-learn, SQLALCHEMY. |
| **Version Control** | GIT/github, SVN, PVCS, Clear Case |
| **Web Technologies** | HTML, CSS, DOM, SAX, Java Script, JQuery, AJAX, XML, Angular JS. |
| **Application servers** | Apache Tomcat, JBoss, WebLogic, WebSphere |
| **Debuggers** | Multi-ICE, GNU GDB, Dbx, PDBV, Charles Debugging session |
| **Libraries and frame works** | Django, Zope, PyJamas, Jython, CSS Bootstrap, STL, BDE, IPC, multithreading, sockets, heap allocators, signals/event handling, SOAP webservices, Software Design OOP/OOD, Design Patterns, Google Test, Google Mock, |
| **Databases** | Microsoft SQL Server, MY SQL, Oracle, SQLite, MongoDB, Hive |
| **Other Tools** | NetBeans, Eclipse, Visual Studio, PyCharm, PyScripter, PyStudio and Sublime Text, Jenkins, UML, kernel internals, PDB, Pylint, Coverity, cppCheck, DBX, GDB, Redis, Google Test, RDK, Google Cloud, Google Mock, Makefile, Splunk, Kibana |
| **Testing Tools** | Bugzilla and JIRA. |

**Professional Experience:**

**Client: Capital one, TX Jan 2019- Present Role: Sr. Python Developer**

**Responsibilities:**

* Designed front end and backend of the application using Python on Django Web Framework.
* Followed Agile and scrum methodologies.
* Used HTML, CSS Bootstrap, AJAX, JSON designed and developed the user interface of the website.
* Developed views and templates with Python OOD to create a user-friendly Website interface.
* Refactor Restful APIs and Django modules to deliver certain format of data.
* Implemented client-side validation to avoid back and forward between server-client and provide better user experience using AngularJS.
* Converted a C++ back end web application code to compile in visual studio 2015 from 2003 version.
* Used Ansible for Configuration Management, maintaining servers.
* Experienced in writing playbooks, executing playbooks and deploying applications using Ansible
* Used Postman for API requests and responses.
* Utilized Python 3.4 libraries such as numpy, pandas and matplotlib to read data from csv files aggregate and update data
* Monitoring the logs and security Using Ansible
* Developed API modularizing existing python module with the help of py yaml libraries which is a YAML parser and emitter for Python.
* Performed Unit testing, Integration Testing, GUI and web application testing.
* Worked on Jenkins continuous integration tool for deployment of project. Automated the continuous integration and deployments using Jenkins, Docker, Ansible and AWS Cloud Templates.
* Worked under Agile/Scrum environment and handled production rollouts and issues.
* Reviewed requirement documents with the business and development team to understand the architecture and functionality of the application and consolidated these requirements in appropriate modules in Test strategy.
* Used Python scripts to generate various reports transaction history, user privileges, limit rules and commission schedule reports.
* Collaborated with UI team to create web pages while ensuring visual quality and performance.
* Added support for AWS S3 by creating S3 buckets, managing policies and RDS to host static files into the Amazon cloud.
* Worked with search business team to implement dynamic rule updates to search using elastic search.
* Worked in NoSQL and MySQL database on queries and writing Stored Procedures for normalization and renormalization.
* Wrote Python scripts to parse JSON documents and load the data in database, to Import and Export data to CSV, EXCEL formats from different environments using Python for Cron jobs.
* Handled potential points of failure through error handling and communication of failure.
* Troubleshoot the process execution and worked with other team members to fix many Python bugs.
* Creating Bash/Korn shell scripts to monitor system resources and system maintenance.
* Responsible for debugging project monitored on JIRA (Agile).
* Involved in Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with Shell script.
* Developed Docker images to support Development, Testing teams and their pipelines.
* Worked on virtual and physical Linux hosts and involved in day to day administrative activities such as maintaining user accounts and providing advanced file permissions to specific users.

**Environment:** SQL Developer, Xml, Html5, Css3, Angular JS, Eclipse, PYCHARM, UNIX, Python 3, Bash, Shell, Perl, Visio, Junit, UNIX.

**Client: Verizon, FL Feb 2018 – Jan 2019 Role: Python Developer**

**Responsibilities:**

* Followed Agile and Scrum Methodologies.
* Wrote Python OO Design code for manufacturing quality, monitoring, logging, and debugging code optimization
* Developed static and dynamic applications using python scripting.
* Designed applications to process the huge electronic data for claims and enrollment files for portal request.
* Involved in writing python programming scripts for the requests to process EDI, JSON data quickly
* Developed different software applications with Java, python, QTP, ASP.NET, SQL, SQL developer.
* Worked on facets member enrollment and claims processing.
* Monitored, maintained Amazon AWS cloud infrastructure through services like EC2 as per the requirement.
* Used python packages like cx\_oracle, SQLAlchemy, pyodbc and MySQL dB for working with Oracle, SQL Server, SQLite and MySQL DB
* Migrated the claims check process to ClaimsXten using python automation scripts with SQLite database
* Implemented an EDI files to interact with the database (SQL Server) through facets to generate the key word file to insert into FACETS.
* Implemented continuous integration using Jenkins and involved in the deployment of application with Ansible automation engine.
* Automating Infrastructure with Cloud Formation Understanding JSON & YAML
* Developed UI components using Html5, CSS3, JavaScript and angularjs. Implemented various web-based applications using REST web services.
* Build and maintain SQL scripts, indexes, and complex queries for data analysis and extraction
* Developed and maintained PL/SQL packages and stored procedures and writing SQL queries.
* Implemented XML Parsing logic using SAX Parser.
* Adopt Agile Methodology to plan using JIRA.
* Customized SQL procedures, Triggers, functions according to the client requirements.
* Involving in Building the modules in UNIX, LINUX AND WINDOWS environments with scripts.

**Environment**: Python 3, SQL Developer, Xml, ansible, Html5, Css3, Angular JS, Eclipse, UNIX, Bash, Shell, Perl, Visio.

**Client**: **Dealer Track, CA Oct 2017 – Feb 2018**

**Role: Python Developer**

**Responsibilities:**

* Involved in understanding of business requirements, design and development of the project.
* Agile methodology has been used for Application Development.
* Used transactions data and code in Python (Pandas, NumPy) to understand how users have changed their usage behavior with respect to the sale/various promotional offers.
* Deployed applications on AWS by using Elastic Beanstalk, used AWS SDK to connect with Amazon SQS for bulk email processing.
* Used Beautiful-Soup for Web Scraping, Sci-kit Learn for machine Learning, Tensor Flow for Deep Learning.
* Developed UI modules using HTML5, JSP, JavaScript and CSS.
* Primarily focused on the Spring components such as Dispatcher Servlets, Controllers, Model and View Objects, View Resolver.
* Defined Web Services using JSON-based Web Services Description Language
* Used Angular JS in the view layer for some of the view components.
* Involved in developing code for obtaining bean references in Spring framework using
* Dependency Injection (DI) or Inversion of Control (IOC) using annotations.
* Worked extensively with Core Java to develop code in Service Layer.
* Followed the Object-Oriented Analysis and Design (OOAD).
* Used Service Oriented Architecture (SOA), to achieve loose coupling.
* Design Patterns like Façade, Singleton and Factory Pattern were used.
* Implemented the required functionality using Hibernate for persistence & Spring framework
* Developed DAOs (Data Access Object) using Hibernate as ORM to interact with DBMS
* Worked with Restful Web Services.
* Used Log4j for logging the application, log of the running system to trace the errors and certain automated routine functions.
* Used Jira for Ticketing.
* Used Team City for Continuous build.
* Worked with UML Diagrams.
* Participated in application fine tuning and used JQuery to provide better features on the front end.
* Provided extensive pre-delivery support using Bug Fixing and Code Reviews.
* Used LOG4J & JUnit for debugging, testing and maintaining the system state.

**Environment:** JSP, Html5, JavaScript, Python 3, Linux, Java, Restful Web Service, JQuery, CSS, log4j

**Client: Rackspace, San Antonio, TX Oct 2016 – Sep 2017**

**Role: Software Developer**

**Responsibilities:**

* Back-end Java developer for Mail-gun REST API. Worked with agile team in two weeks sprint cycles to rapidly enhance web services demonstrating output weekly to partners and incorporating feedback.
* Developed several REST web services supporting both XML and JSON to perform tasks such as limiting maximum size of an attachment, signature to email, change password. REST web services leveraged by both web and mobile applications.
* Implemented python scripts to run the automation jobs to send emails for event notifications etc.
* Maintain high-quality of RESTful services guided by best practices.
* Work closely with architect and clients to define and prioritize their use cases and iteratively develop APIs and architecture.
* Implemented Test cases using JUnit and Tested web services with SOAPUI Client.
* Maintained high level of unit test coverage through test-driven development.
* Worked with team of developers on Python application for DMARC non-enforcement.
* Utilized PyUnit, the Python unit test framework, for writing unit tests.
* Used Vagrant to create and configure Virtual Development Environment.
* To provide automation, used Configuration Management Tool, Chef.
* Worked in an agile development environment.
* Used GitHub for version control.

**Environment:**  Java, Spring3.0, Python 2, Ubuntu 15.4, PyUnit, RabbitMQ, Redis, MySQL.

**Client: AVIVA, India June 2013 – July 2015**

**Role: Programmer Analyst**

**Responsibilities:**

* Developed and maintained the User Interface for the project using HTML, CSS, JavaScript and AJAX.
* Developed views and templates with Django's MVT (model, view and template) to create a user-friendly website.
* Responsible for Data migration from Sqlite3 to MongoDB.
* Entire Front end and back end modules of the project are developed using Python with Django Framework.
* Designed and developed the data management of the project using MySQL databases.
* With the use of Django's Database API, accessed database objects.
* Written Python Scripts to parse the XML documents and load the data in database.
* Used existing Python and Django modules and rewritten to deliver data in certain formats.
* Created Python and Bash tools to increase efficiency of call center application system and operations, data conversion scripts, REST, JSON, and CRUD scripts for API Integration.
* Client-side validations are handled using JavaScript and manipulations are handled using JQuery and JavaScript.
* Experienced in writing indexes, views, constraints, stored procedures, triggers, cursors and user defined functions or subroutines in MySQL.
* Responsible for Debugging and troubleshooting the application.
* Used Subversion control tool to coordinate teamwork.
* Used Selenium Library to write fully functioning test automation process.

**Environment:**Python, Django, MySQL, UNIX, HTML, CSS, AJAX, JavaScript, Apache Web Server, XML, JSON, SVN.

**Education:**

Master’s in Computer Science and Engineering, University of North Texas, USA.

Bachelor of Technology in Computer Science and Engineering, JNTUK India.