**Manoj Kumar**

**Python Developer**

**Ph: (860)-516-4658**

**E-mail: manjku13@gmail.com**

**Professional Summary:**

* **Above 7 years** of **IT experience**  in all phases of **Software Development Life Cycle** (**SDLC**) such as **Planning**, **Analysis, Design, Implementation, Testing** and **Maintenance** of **Web Based, Client-Server**  in domains like **Banking**, **HealthCare**, **Telecom etc**
* **Proficient coder in multiple languages and environments including Python, Django, C, C++ and SQL.**
* Experienced in developing web-based applications using **Python, Django, UI/UX, PHP, C++, XML, CSS 5, HTML, DHTML, JavaScript, Jdk1.7, jquery, Angular.JS.**
* Experience in version control systems using CVS, SVN and Git/Github and issue tracking tools like Jira and BugZilla.
* Experienced in working with various Python IDE’s using **PyCharm, Spyder, PyStudio, PyScripter, and PyDev**
* Understanding of Python best Practices (PEP-8).
* Expertise in handling web applications - UI security, logging, backend services.
* Hands on working with **Python latest versions 3.4.3 and 2.7.10,SVN, Git, JIRA, Bugzilla, Axosoft, Amazon EC2/S3.**
* Proficient in **SQLite, MySQL and Postgre SQL** databases with Python.
* Experienced in developing Web Services with Python programming language.
* Familiar with JSON based REST Web services and Amazon Web Services (AWS).
* Worked on Amazon Web Services(AWS) infrastructure with automation and configuration management tools such as Chef and Puppet.
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views
* Strong understanding of **UNIX** and **Linux** environments and commands.
* Hands on experience in **Design** documentation.
* Strengths include ability to prioritize responsibilities, manage multiple projects in parallel, Ability to interact effectively with all levels of management and developers.
* Well versed with **Agile with SCRUM, Waterfall Model** and Test-driven development methodologies.
* Experience in building frameworks and automating complex workflows using Python for Test Automation
* Experienced in handling projects for entire software life cycle and provided first, second and third level support. Handled late night calls and deployed production hot fixes.
* Experience in implementing with server side technologies with restful API and MVC design patterns with **node JS and Django** framework.
* Good experience on using Mercurial, Git (GERITT review) and CVS for configuration management.
* Implemented continuous integration using Jenkins
* Excellent verbal and written skills, especially with regards to presenting findings to both technical and nontechnical audiences.
* Good experience in **JAVA and OOPS** concepts.
* Good experience in .**Net** framework.
* Experience in writing test scripts, test cases, test specifications and test coverage.
* Strong analytical and troubleshooting skills.
* Hands on experience in using NOSQL libraries like **MongoDB, Cassandra, Redis** and relational databases like **Oracle, SQLite, PostgreSQL and MYSQL databases.**
* Knowledge of the Software Development Life Cycle (SDLC), Agile and Waterfall Methodologies.
* Ability to develop algorithms for descriptive analysis and predictive analysis.
* Experience with Python development under Linux OS (Debian, Ubuntu, SUSE Linux, RedHat Linux, Fedora)
* Hands on experience in creating a custom Puppet module skeleton to use same structure across all Puppet modules.
* Good experience in implementing algorithms using **MATLAB.**
* Adept in providing analytical support to key business applications/ solutions.
* Experience with **Jsp Servlets, Web Services (SOAP, REST)** and **Tomcat**.
* Excellent debugging, problem solving, optimization and testing skills.
* Expertise in writing Stored Procedures, Cursors, Functions and performed data analysis using PL/SQL

**Technical Skills:**

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| **Programming Languages** | C,C++, Java,Python,MATLAB |
| **Web Development** | HTML,XML,CSS,DHTML,Java Script,JQUERY,AJAX and Angular JS |
| **Deployment Tools** | Heroku, Jenkins, AWS, AZURE, Puppet |
| **Python Framework** | Django, RabbitMQ ,Flask, Web2py and Bottle, Pyramid, |
| **IDE** | PyCharm, Sublime Text, Eclipse, Net Beans, RAD, Web Logic Workshop |
| **Query Languages** | SQL, PL/SQL |
| **Databases** | MySQL, SQL Server RC 2008,Oracle 11g/10g/9i, MongoDB, Cassandra |
| **Reporting Tool** | SQR reports, AXSPoint Reports, Sql Server Reporting Services (SSRS 2008/2005) |
| **Bug Tracking Tools** | Bugzilla, Junit, gdb ,Jira |
| **Web Servers** | WebSphere, Apache,WebLogic, Apache, Gunicorn |
| **Modeling Tools** | TOAD, Erwin, Rapid Sql |
| **Operating Systems** | Windows , Linux, Unix, OS X |

**Work Experience:**

**Client : Florida Department of Health, Tallahassee, FL**

Title **: Python Developer**

Duration **: Oct 15 – Till Date**

**Description:** Florida Department of Health administers healthcare programs, such as Medicare, Medicaid, Children's Health Insurance Program (CHIP), and these three major national healthcare programs benefit about 100 million Americans.

**Responsibilities:**

* Involved in understanding and analyzing the clients business, requirements for the system.
* Developed dynamic web pages using **Python, Django** Frameworks.
* Developed **monitoring and notification** tools using Python.
* Improved the application by designing and developing it using **HTML and JavaScript**.
* Involved in the development of front end of the application using Python 2.7, HTML5, CSS3, AJAX, JSON and JQuery. Worked on backend of the application, mainly using Active Records.
* Used data structures like **directories, tuples**, object oriented class based inheritance features for making complex algorithms of networks.
* Created **PHP/MySQL** back-end for data entry from Flash. I had to assist the Flash developer send the correct data via query strings
* Experience in agile environment using a CI/CD model methodology.
* Involved in building database Model, APIs and Views utilizing python, in order to build an interactive web based solution.
* Generated **Python Django** Forms to record data of online users.
* Created Data tables utilizing **PyQt** to display patient and policy information and add, delete, update patient records.
* Wrote a Python module to connect and view the status of an Apache Cassandra instance.
* Developed MVC prototype replacement of current product with Django.
* Significantly improved report generation efficiency by caching, reusing and improve the security level of Data.
* Created UI using JavaScript and HTML5/CSS3.
* Developed and tested many features for dashboard using Python, Java, Bootstrap, CSS, JavaScript and JQuery.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and **MySQLdb** package to retrieve information.
* Used **Jenkins** to build and troubleshoot automated testing.
* Rewrite existing Java, C++ application in Python.
* Responsibilities for creation of **Database, Business Logic** to display the records dynamically on template based on query, providing user permission to access particular features of the site.
* Generated Python **Django forms** to record data of online users and used PyTest for writing test cases.
* Implementing change requests raised by user for server configuration, kernel tuning, software installation and OS hardening. Managing Linux VMs using Puppet as per some projects requirement.
* Performed unit testing and code reviews.
* Involved in capturing the requirements for serial functional interface and other software requirements specification document.
* Created a custom Puppet module skeleton to use same structure across all Puppet modules.
* Used Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.
* Build and maintain code libraries to support analytics.
* Created web application prototype using **jQuery and Angular JS**.
* Deployed the project into **Heroku** using **GIT** version control system.
* Resolved ongoing problems and accurately documented progress of a project.
* Designed and configured database and back end applications and programs.
* Update, maintain and change the current web applications as per the project requirement.
* Skilled in using collections in Python for manipulating and looping through different user defined objects

**Environment:** Python 2.7, Django 1.6, Tableau 8.2, Beautifulsoup, HTML5, AWS , Puppet , CSS/CSS3, Bootstrap, XML, JSON, JavaScript, JQuery, Angular JS, Backbone JS, Restful Web services, Apache, Linux, Git, Amazon s3, Jenkins, MySQL, Mongo DB, T-SQL, Eclipse.

**Client : Fidelity Investments, Raleigh, NC**

Title **: Python Developer**

Duration **: Aug ’14 - Sept ‘15**

**Description:** Fidelity Investments is an American multinational financial services corporation. It is the second largest mutual fund and financial services group in the world. Fidelity Investments manages a large family of mutual funds, provides fund distribution and investment advice services, as well as providing discount brokerage services, retirement services, wealth management, securities execution and clearance, life insurance and a number of other services.

**Responsibilities:**

* Interacted with the client end-users during requirements gathering sessions.
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Developed dynamic web pages using **Python, Django** Frameworks.
* Designed and Developed User Interface using front-end technologies like **HTML, CSS, JavaScript, JQuery, AngularJS, Bootstrap and JSON.**
* Worked on Django API's for accessing the database.
* Supported Apache Server on Linux Platform.
* Generated Python **Django forms** to record data of online users and used PyTest for writing test cases.
* Created specific images using **Python Imaging Library** for the custom images used for each book
* Implemented Business logic, worked on data exchange, processed XML and HTML using Python 2.7 and its familiar framework Django.
* Good in troubleshooting issues by identifying the root cause and finding solutions for the issue.
* Model View Control architecture is implemented using Django Framework to develop web applications.
* Developed Views and Templates with Python and using Django's view controller and template language, Website interface is created.
* Good understanding of **SOAP UI**.
* Used IBM DB2 SQL stored procedures and **UNIX** Shell Scripts for importing/exporting Data and Conversions.
* Used **MATLAB** for implementing algorithms and creation of user interfaces.
* Created Django dashboard with custom look and feel for end user after a careful study of Django admin site and dashboard.
* Worked on **Jenkins** continuous integration tool for deployment of project.
* Deployed the project into Jenkins using GIT version control system.
* Created Git repository and added to GitHub project.
* Developed Application to access **JSON** and **XML** from **Restful** **Web** **Service** from consumer side using **JavaScript** and **Angular**.**JS**.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.
* Strong understanding of testing methodologies such as TDD.
* Implemented automate scripts to back up the old records using MongoDB export command and transfer these backup files into backup machine using **Ftplib**.
* Ensured high quality data collection and maintaining the integrity of the data.
* Developed object-oriented programming to enhance company product management.

**Environment**: Python2.7, Django, HTML5/CSS, XML, MATLAB, Angular.JS, MySQL, JQuery, JavaScript, JSON, Ajax

**Client : DirecTV, CA**

Title **: Python Developer**

Duration **: Feb’13 – July’14**

**Description:** DirecTV is an American direct broadcast satellite service provider and broadcaster based in El Segundo, California. As of July 2015, it is a subsidiary of AT&T.Its satellite service launched on July 17, 1994 transmits digital satellite television and audio to households in the United States, Latin America and the Caribbean. DirecTV provides television and audio services to subscribers through satellite transmissions. Services include the equivalent of many local television stations, broadcast television networks, satellite radio services and private video services.

**Responsibilities:**

* Involved in the Analysis, design and architecture of the application.
* Worked on requirement gathering and High level design.
* Created **PHP/MySQL** back-end for data entry from Flash. I had to assist the Flash developer send the correct data via query strings
* Used **HTML/CSS, XML** and **JavaScript** for UI development.
* Converted Visual basic Application to **Python, MySQL**.
* Generated **Python** **Django** **Forms**, **Crispy** **forms** to record data, login and signup of online users.
* Experience in development test automation.
* Designed and Implemented a **Random Unique Test Selector Package** on processing large volume of data using **Python** and **Django** **ORM**.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Designed email marketing campaigns and also created responsive **web** **forms** that saved data into a database using **Python**/ **Django** Framework.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Created data base tables, functions, stored procedures and wrote prepared statements using **PL/SQL**.
* Modified queries, functions, cursors, triggers and stored procedures for MySQL database to improve performance, while processing data.
* Involved in capturing the requirements for serial functional interface and other software requirements specification document.
* Extensive code reviewing using GitHub pull requests, improved code quality, and also conducted meetings among peer.
* Responsible for Parsing XML data using XML parser and Testing, fixing of the bugs and coding modifications.
* Database Administration activities like taking backup, checking log messages, looking for database optimization.
* Used Redis as messaging broker to execute asynchronous tasks.
* Designed and implemented a dedicated MYSQL database server to drive the web applications and report on daily progress.

**Environment**: Python2.7, Django 1.4, Jenkins, MySQL, Linux, HTML, CSS, JQuery, JavaScript, Apache, Linux, Git.

**Client : Hudson Insurance, Alpharetta, GA**

Title **: Python Developer**

Duration **: Oct ’11- Jan ‘13**

**Description:** The old Customer Service Website is being replaced with a modern, attractive, SOA-oriented site. It has various parts of the functionality to communicate with the backend system through web services. It uses the ACORD (Association for Cooperative Operations Research and Development) Life and Annuity Standards expressing the insurance concepts in a formally defined specification to enable trading partner and intra-enterprise of sharing insurance data, giving a well-defined vocabulary for expressing the insurance concepts.

**Responsibilities:**

* Involved in Client Interaction on a weekly basis to gather requirements and also involved in creating Business Requirements documents based on Requirements.
* Used the **Django** Framework to develop the application.
* Created specific images using **Python Imaging Library** for the custom images used for each book.
* Used Python to place mdata into **JSON** files for testing Django Websites.
* Updated and manipulated content and files by using python scripts.
* Implemented web applications in **Flask** and **spring** frameworks following MVC architecture.
* Used **Django** configuration to manage URLs and application parameters.
* Worked on **Python** Open stack API's.
* Used Python scripts to update content in the database and manipulate files.
* Generated Python Django Forms to record data of online users.
* Used **Python** and **Django** creating graphics, XML processing, data exchange and business logic implementation
* Optimized the code using smart pointers, profilers and C++ Standard template library.
* Directly responsible for various enhancements of Equipment updates/transmission of signals on **OC/STS cables**.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Involved in development of Web Services using **SOAP** for sending and getting data from the external interface in the XML format.
* Analyzed performance test requirements and developed test plans and have done debugging to understand test objective requirements.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and **MySQLdb** package to retrieve information.
* Rewrite existing Java, C++ application in Python.
* Responsibilities for creation of **Database, Business Logic** to display the records dynamically on template based on query, providing user permission to access particular features of the site.

**Environment**: Python, MySQL, Django, Flask, PHP, XML, Linux, HTML, Java script, SOAP.

**Client : Axis Bank, Pune, India**

Title **: Java/J2EE Developer**

Duration **: Aug ’10- Sep ‘11**

**Description:** Axis Bank Limitedis the third largest private sector bank in India. Axis Bank's stake holders include prominent national and international entities. As of 31 Dec. 2013, approximately 43% of the shares are owned by Foreign Institutional Investors. Promoters ( [UTI](https://en.wikipedia.org/wiki/Unit_Trust_of_India), [LIC](https://en.wikipedia.org/wiki/Life_Insurance_Corporation_of_India) and [GIC](https://en.wikipedia.org/wiki/General_Insurance_Corporation_of_India)), who collectively held approx. 34% of the shares, are all entities owned and controlled by the [Government of India](https://en.wikipedia.org/wiki/Government_of_India). The remaining 23% shares are owned by corporate bodies, financial institutions and individual investors among others.

**Responsibilities:**

* Involved in understanding and analyzing the clients business, requirements for the system.
* Designed and developed various data gathering forms using **HTML, CSS, JavaScript, JSP** and **Servlets**.
* Developed user interface modules using **JSP, Servlets** and **MVC** framework.
* Used Struts tiles libraries for layout of Web page, Struts validation using validation.xml and validation- rules.xml for validation of user Inputs for validation on server side.
* Used **MVC, AJAX** to develop the Web Based reporting application.
* Designed and developed the Critical modules like Order Processing and Order Making and Agents and Reports Generation.
* Client side validation was done using JavaScript.
* Used **Enterprise Java Beans (EJBs)** extensively in the application. Developed and deployed Session Beans to perform user authentication.
* J2EE Architecture was implemented using **Struts** based on the MVC2 pattern.
* Developed user interface using **JSP, HTML, CSS** and **JavaScript**.
* Used Dependency injection in spring for Service layer and DAO layer.
* Worked on creating various documents that include Use Cases, Class Diagrams, Sequence Diagrams and Activity Diagrams.
* Created XML Schema, **XML** template and **XSL**. Developed Web Services Application using **SOAP**.
* Used Web services - WSDL and SOAP for getting credit card information from third party.
* Written Servlet and deployed them on WebSphere Application server.
* Developed, coded, tested, debugged and deployed JSPs and Servlets for the input and output forms on the web browsers

**Environment:** Java, J2EE, Java Server Pages (JSP), JDBC, ODBC, Struts Framework, JavaScript, Servlets, Junit, XML, WebLogic Application Server.

**Client : Reliance Communications Ltd, Mumbai, India**

Title **: Java/J2EE Developer**

Duration **: July ’09- July ‘10**

**Description:** Reliance Communications Ltd. is an Indian [Internet access](https://en.wikipedia.org/wiki/Internet_access) and [telecommunications](https://en.wikipedia.org/wiki/Telecommunications) company headquartered in [Navi Mumbai](https://en.wikipedia.org/wiki/Navi_Mumbai), India. It provides CDMA, GSM mobile services, fixed line broadband and voice services, DTH depending upon the areas of operation. Reliance Communications is the [fourth](https://en.wikipedia.org/wiki/List_of_mobile_network_operators_of_India) largest telecom operator in India with 109.90 million subscribers as of June 2015.

**Responsibilities:**

* Involved in developing, testing and implementation of the system using **Struts, JSF**, and **Hibernate**.
* Involved in entire life cycle development of the application.
* Involved in the development of business module applications using J2EE technologies like Servlets, **Struts, JDBC and ODBC.**
* Reviewing and analyzing data model for developing the Presentation layer and Value Objects.
* Used **HTML, CSS, XHTML** and **DHTML** in view pages for front-end.
* Extensively involved in developing Web interface using **JSP, JSP Standard Tag Libraries** (JSTL) using **Struts** Framework.
* Developing, modifying, fixing, reviewing, testing and migrating the **Java, JSP, XML, Servlet, SQLs, JSF, Spring and hibernate programs**
* Used Struts & JavaScript for client-side validation.
* Automated the **HTML** and **JSP** **pages** indexing process of search module using **Apache** **Ant** **tool** and **singleton** **design** **pattern**.
* Involved in web designing using **HTML 4/5, XHTML, CSS 2/3, JQuery, JavaScript** extensively used Table less Design in CSS for positioning.
* Adopted **J2EE** **best** **practices** using **J2EE** design patterns for designing and developing the application components.
* Developed JavaScript files for user input validation and client side revenue calculations.
* Worked with **AJAX** framework to get the asynchronous response for the user request and used JavaScript for the validation.
* Used **Enterprise Java Beans (EJBs)** extensively in the application. Developed and deployed Session Beans to perform user authentication.

**Environment:** Java, J2EE, Java Server Pages (JSP), JavaScript, Servlets, JDBC, ODBC, Struts Framework, XML, CSS, HTML, DHTML, XSL, XSLT and MySQL.