

**Shiva Email:** [shiva.spdev@gmail.com](mailto:shiva.spdev@gmail.com)

**Python Developer Phone:** (732)-385-5026

**PROFESSIONAL SUMMARY**

* **Over 8**+ **Years** of experience in Analysis, Design, Development, Management and Implementation of various stand-alone, client-server enterprise applications in Python on various domains.
* Good experience in developing web applications implementing **Model View Control architecture** using **Django web application frameworks.**
* Experienced in working with various Python IDE’s using **PyCharm, PyScripter, Spyder, PyStudio and PyDev.**
* Implemented different python libraries **BeautifulSoup, numpy, PyMQI, scipy, pytables, matplotlib, memcache, PySide, Pandas data frame, PyQtGraph and urllib2** in various tasks.
* Expertise in Object-Oriented design and coding.
* Good experience in **Python, Django, Shell Scripting, SQL Server, Unix and Linux.**
* Knowledge of **HTML**, **JavaScript, CSS, AngularJS** and **JQuery**.
* Developed web applications and **Restful web services** and **APIs** using **Python, Flask, and Django**.
* Built custom **UI** Widgets and Application logic using **OOD** and **MVC** architecture.
* Useful learning of web services with protocols **SOAP, REST.**
* Worked on changes to openstack and **AWS** to accommodate large-scale data center deployment.
* Knowledge of **ORM** mapping using **SQLALCHEMY**.
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers.
* Worked on SQL databases like **MYSQL**, **NOSQL**, **PostgreSQL** and **Oracle**.
* Analyzed and handled large datasets using **Oracle Relational database 9G, 10G.**
* Skilled in debugging/troubleshooting issues in complex applications.
* Developed Build Scripts to fortify certain Applications using **Ant** and **Maven**.
* Have good idea about development tools like **Bugzilla, Jira, Confluence, Ax soft**.
* Have good knowledge on NoSQL databases like **Cassandra, MongoDB**.
* Experience with Unit testing, Test driven Development**(TDD)**, Load testing, Integration testing, User acceptance testing, Functional testing.
* Skilled in Requirement gathering, use case development, Business Process flow, Business Process Modeling: extensively used UML to develop various use cases, class diagrams and sequence diagrams.
* Good knowledge in working with application server -**Apache Tomcat, Web logic.**
* Hands-on experience in **Python scripting, Python STL, Pylons, Django,** UI and web development.
* Used **SVN** and **GIT** for version control.
* Experience in **Agile** development techniques.
* Performed code reviews and implemented best Python programming practices.
* Willing to learn and adapt to any platform.

**TECHNICAL SKILLS**

**Programming Languages:**  C, C++, Java, Python.

**Scripting Languages:** CSS, AJAX, JavaScript, JQuery, Typescript.

**Markup Languages:** HTML, XML, JSON.

**Frameworks:** Django, Flask, AngularJS/2.

**Python Libraries:** ReportLab, Numpy, Scipy.

**Operating Systems:** Linux, Ubuntu, MacOS, Windows XP/Vista/7/8/10, Android.

**Databases:** MySQL, SQLite, PostgreSQL, MongoDB, OracleDB.

**IDEs/Tools:** PyCharm, Sublime Text, Visual Studio Code, Eclipse.

**Version Control Systems:**  GitHub, Bit Bucket.

**Methodologies & Tools:** Object Oriented Programming, UML, Agile Scrum.

**EDUCATION & CERTIFICATIONS**

**Bachelor of Technology in Computer Science Engineering | Bengaluru, India August 2006 – May 2010**

Amrita Vishwa Vidyapeetham

**AWS Certified Developer – Associate** VFB6WG322MQE14S9

**WORK EXPERIENCE**

**State of Wisconsin: Department of Workforce Development, Madison, WI Dec 2016 – Current**

**Role: Sr. Python Developer (Django)**

**Responsibilities:**

* Participated in all the stages of software development lifecycle like design, development, and implementation and testing.
* Django Framework that was used in developing web applications to implement the model view control architecture.
* For database access Django API's have been used.
* Business logic implementation, data exchange, XML processing and graphics creation has been done using Python and Django.
* Views and Templates were developed with Python and to create a user-friendly website interface Django's view controller and template language is used.
* Developed UI using CSS, HTML, JavaScript, AngularJS, JQuery and JSON.
* DB2 SQL Procedures and UNIX Shell Scripts were designed and developed for Data Import/Export and Conversions.
* A Django dashboard with custom look and feel for end user has been created after a careful study of the Django admin site and dashboard.
* Unit Test Python library was used for testing many programs on python and other codes.
* JIRA was used to build an environment for development.
* Different testing methodologies like unit testing, Integration testing, web application testing were performed.
* For the extraction of data from the database various queries were written and a database was created using MYSQL.
* Search engine optimization by replacing existing database with MongoDB (NoSQL Database).
* In order to avoid the reloading of the entire web page to update small portions, AJAX in UI was used.
* For sending and receiving the data between multiple systems RESTful Web-Services were implemented.
* Features for dashboard were developed and tested using CSS, JavaScript, Django, and Bootstrap.
* Git repository was created and added to GitHub project.
* An application was developed in Linux environment and dealt with all of its commands.
* Performance and consistency being the main factors of consideration the code was tuned.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.

**Environment:** Python 2.7, Django 1.6, JavaScript, HTML, Angular JS, JQuery, JSON, CSS, MySQL Bootstrap, Git.

**TransUnion, Austin, TX Mar 2015 – Nov 2016**

**Full Stack Developer (Python / Django)**

**Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Participated in all stages of the SDLC process.
* Developed user interface using CSS, HTML, JavaScript and JQuery.
* Wrote Python modules to extract data from the MySQL source database.
* Designed and implemented a dedicated MYSQL database server to drive the web applications and report on daily progress.
* Developed views and templates with Python and Django’s view controller and templating language to create a user-friendly website interface.
* Used Django framework for application development.
* Created entire application using Python, Django, MySQL and Linux.
* Designed and managed API system development using fast http server and Amazon AWS architecture.
* Installed, configured and monitored scripts for AWS EC2 instances.
* Liaised with business analysts and manual test team leaders to perform risk analysis and assessment associated with automation testing.
* Enhanced existing automated solutions, such as the Inquiry Tool for automated Asset Department reporting and added new features and fixed bugs.
* Performed Data Driven Test with Quick Test Professional (QTP) to test the application for different sets of data.
* Implemented RESTful Web Services for the data transportation between multiple systems.
* Developed remote integration with third party platforms by using RESTful web services.
* Built various graphs for business decision making using Python matplotlib library.
* Used Python Library Beautiful Soup for web Scrapping.
* Mainatined Puppet rspec for testing various unit/system automation schemes.
* Worked on Jenkins continuous integration tool for deployment of project.
* Deployed the project into Jenkins using GIT version control system.
* Developed an application in Linux environment and dealt with all of its commands.
* Developed, tested and debugged software tools utilized by clients and internal customers.
* Coded test programs and evaluated existing engineering processes.
* Designed and configured database and back end applications and programs.
* Experienced in Linux shell commands and command line utilities.
* Explored and identified new technological platforms.
* Collaborated with internal teams to convert end user feedback into meaningful and improved solutions.
* Determined problems solved them and precisely documented progress of the project.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.

**Environment:** Python 2.7, Django 1.4, AngularJS, AWS, Puppet Rspec, Jenkins, Grafana/Graphite, MySQL, Linux, HTML, CSS, JQuery, JavaScript, Apache, Linux, Git.

**Bloomin’ Brands, Tampa, FL Jun 2014 - Feb 2015**

**Python Developer**

**Responsibilities:**

* Created Python and Bash tools to increase efficiency of call center application system and operations; data conversion scripts for API Integration.
* Recording of Scripts (Web, Web Services HTML) SoapUI and script validation through co correlations, parameterizations and other methods. Scripting- web and web services.
* Application was based on service-oriented architecture and used Python 2.7, Django1.5, Ajax, HTML, CSS for the frontend.
* Build the Silent Circle Management System (SCMC) in Django, Python, and Node.JS while integrating with infrastructure services.
* 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.
* Used existing Deal Model in Python to inherit and create object data structure for regulatory reporting.
* Used standard Python modules e.g. csv, xml for development.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using Django, HTML, CSS, JavaScript, and jQuery calls.
* Automated RabbitMQ cluster installations and configuration using Python/Bash.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Improved the coding standards, code reuse. Increased performance of the extended applications by making effective use of various design patterns (Front Controller, DAO).
* Worked on a large scale distributed computing environment, monitoring data nodes to prioritize jobs for processing functions.
* Worked extensively with JavaScript, and jQuery to optimize the user experience.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Carried out various mathematical operations for calculation purpose using python libraries.
* Built various graphs for business decision making using Python matplotlib library.
* Fetched twitter feeds for certain important keyword using python-twitter library.
* 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.
* Executing regression tests on each release and verified bugs found from automation test in Bugzilla.
* Planning, implementing, and converting manual test cases to automation test cases.

**Environment:** Python 2.7, Django 1.4, AngularJS, HTML, CSS, Bootstrap, JSON, MySQL, Heroku, GitHub, UNIX, and Virtualization.

**Client: DNC Technologies, INDIA March 12 – May 14**

**Role – Python Developer**

**Responsibilities:**

* Used the Django Framework to develop the application.
* Implemented web applications in Flask and spring frameworks following MVC architecture.
* Used Python to place data 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
* Participated in requirement gathering and analysis phase of the project in documenting the business requirements, conducting workshops/meetings with various business users.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Wrote Teradata Macros and used various Teradata analytic function
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Used HTML, CSS, JQuery, JSON and JavaScript for front end applications.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript.
* Used Bootstrap as a mechanism to manage and organize the html page layout.
* Used Django configuration to manage URLs and application parameters.
* Built various graphs for business decision making using Python Matplotlib library.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL dB package.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Manage, collaborate and coordinate the work of an offshore development team.
* Worked on rebranding the existing web pages to clients according to the type of deployment.
* Worked on updating the existing clip board to have the new features as per the client requirements.
* Used many regular expressions to match the pattern with the existing one.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Worked on development of SQL and stored procedures on MYSQL.
* Used Maven to validate, compile and deploy the files.
* Responsible for debugging the project monitored on JIRA (Agile).
* Analyzed performance test requirements and developed test plans and have done debugging to understand test objective requirements
* 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.

**Environment:** Django, Python, HTML, CSS, AWS, Agile, MYSQL, XML, JavaScript.

**Client: Precision IT Solutions Pvt. Ltd. India July 2010 - March 2012**

**Role: Software Developer**

**Responsibilities:**

* Analyzed the system requirement specifications and in client interaction during requirements specifications.
* Providing daily reports to the Development Manager and participate in both the design phase and the development phase. Utilized Agile Methodology and SCRUM Process.
* Implemented code in Python to retrieve and manipulate data.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript, and jQuery.
* Developed dynamic web pages using Python Django frameworks and Used Django APIs for database access.
* Utilized PyUnit, the Python unit test framework, for all Python applications.
* Used jQuery and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Designed and implemented an application for managing customers, purchases and invoices.
* Created RESTful http services to interact with UI.
* Worked in MySQL database on simple queries and writing Stored Procedures for normalization and renormalization.
* End to end testing of the applications.
* Re-engineered various modules for implementing changes and created efficient system.
* Maintained program libraries, user's manuals and technical documentation.

**Environment:** Python, Django, RESTful, Linux, HTML5, CSS3, Bootstrap, JavaScript, JQuery, AJAX, MySQL, Shell, JIRA, GIT