**SIVA VATTIKUTTI**

**Python Developer**

**siva123.python@gmail.com**

**natalie.griffin@cloudbigd.com**

**Natalie, (720) 419-2090**

**Summary:**

* 8+ years of experience in developing as a **Web/Application Developer, server-side** programming and coding with analytical programming using **Python, Django, Test Automation, Testing and debugging, Software development life cycle, testing all layers of Web Application including frontend, service layer and backend testing.**
* Developed MVC web-based applications using **Python** web frameworks like **Django, Pyramid, Flask and Web2Py.**
* **Experience in** Algorithms, Data Manipulation, Data acquisition and Data Validation using scikit-learn libraries in Python. This includes NumPy, SciPy, Matplotlib, IPython and Pandas.
* Experience in developing **Python OpenStack API'S** along with Web Services with Python programming language.
* Experience in object-oriented programming (OOP) concepts using **Python, C++**.
* Good experience in Shell Scripting, **SQL Server, UNIX,** and Linux.
* Expertise on Data bases such as **MYSQL, Oracle, PL/SQL, PostgreSQL** and **NOSQL** databases like MongoDB, Cassandra.
* Experienced in **WAMP** (Windows, Apache, MYSQL, Python) and **LAMP** (Linux, Apache, MySQL, Python) Architecture.
* Experienced in Python's modules like NumPy, regular expressions, collections, dates & times and OS modules.
* Experienced in developing web-based applications using **Python, Django, FLASK, XML, CSS, HTML**.
* Experience with Unit testing/ Test-driven Development (**TDD**), Load Testing.
* Good working experience in **DevOps** Environment by working on various technologies/applications like **GIT, SVN, Jenkins.**
* Developed a fully automated continuous integration system using **Git, Jenkins, MySQL** and custom tools developed in **Python** and **Bash**.
* Developed Restful API's integrating web exe with **Django** and **Python** implementations with data exchange through **JSON** and **XML** formats.
* Developed the required **XML** Schema documents and implemented the framework for parsing XML documents.
* Experience in Cloud computing window **Azure** (AWS).
* Experience in maintaining all the tools like Bamboo, Bitbucket, Confluence, **JIRA**, and **GIT**, **SVN.**
* Implemented several **sockets**, **TCP/IP**, **UDP**, **Twisted ZeroMq**, **XMLRPC** programs to retrieve data from various data centres.
* Good experience in **Amazon AWS** concepts like **EMR, S3,** and EC2 web services which provide fast and efficient processing of Big Data.
* Good experience with cloud platforms like **Amazon AWS** and Google App Engine.
* Configured AWS Identity and Access Management (**IAM**) Groups and Users for improved login authentication.
* Good idea using debugging tools like **Bugzilla**, and **JIRA**.
* Excellent analytical and problem-solving skills with efficient time management and result oriented attitude.
* Good interpersonal, very hands-on attitude and approach, Inquisitive, Self-determined to learn and improve.

**Technical skills:**

|  |  |
| --- | --- |
| **Web Technologies** | JavaScript, AngularJS, CSS3, Node.js, Vue.js, Bootstrap, Angular2, React, HTML5, DHTML, Ajax, jQuery, JSON, XML. |
| **Python Libraries** | Beautiful Soup, NumPy, SciPy, Matplotlib, python-twitter, Pandas, urllib2, Tkinter. |
| **Python Web Frameworks** | Django, Flask, Google App Engine, web2py, Django CMS. |
| **Database** | Oracle11g, MySQL 5.x, and SQL Server, SQLAlchemy, MongoDB, PyMongo, PostgreSQL, SQLite, Oracle Database, Apache HTTP Server. |
| **Operating System** | Windows, Unix, MacOS, Ubuntu. |
| **IDE Tools** | Eclipse, RSA, JBuilder, Oracle ADF, Web Logic, Rational Rose, LDAP, RUP Methodology, Clear Case/Clear Quest |
| **Web Services** | SOAP, REST, WSDL |
| **Methodologies** | OOPS/OOAD, MVC, UML, J2EE Design Patterns |
| **Version Control** | SVN, GIT, Clear case, CVS |
| **Tools** | Jenkins, RAD, Eclipse, Edit Plus, Apache Ant, log4j, JUnit, Visio, ANT. |
| **Web/App. Servers** | WebSphere Application Server 8.0, Apache Tomcat, Web Logic 11g/ 12c, JBoss 4.x/5.x |
| **Cloud Technologies** | AWS, S3, EC2, Boto3. |

**PROFESSIONAL EXPERIENCE:**

**Python Developer**

**DirecTV/ AT&T Entertainment Group – El Segundo, CA January 2017 to July 2018**

**Description:** DirecTV (stylized as DIRECTV) is an American direct broadcast satellite service provider based in El Segundo, California and is a subsidiary of AT&T. Worked on Development of Application for Video Subscription on Demand, Live tracking of events, subscriber data analysis, keep track of user responses and customer feedback.

**Responsibilities:**

* Participated in all the stages of software development lifecycle like design, development, and implementation and testing**.**
* Used **Django Framework** in developing web applications to implement the model view control architecture along with Django's ORM model.
* Developed Views and Templates with Python and to create a user-friendly website interface Django's view controller and template language is used.
* Worked on cleansing data generated from weblogs with automated scripts in Python.
* Responsible for Loading, analyzing, and extracting data to and from Oracle database with Python.
* Parsing various format of files like **XML, JSON** format files and load into **Oracle database** with Python XML and JSON modules.
* Wrote modules in Python to connect to **MongoDB** with **PyMongo** and doing CRUD operations with MongoDB.
* Used Amazon EC2 command line interface along with Bash/Python to automate repetitive work.
* Worked on migrating data to **Amazon AWS**. Used AWS products like EC2, S3, Boto3 to automate EC2 Instances, taking regular snapshots, Log Monitor, Lambda, REST API Gateway etc.
* Developed python/Django based web application, **PostgreSQL** DB, and integrations with 3rd party email messaging storage services.
* Developed UI using **CSS, HTML, JavaScript, jQuery and JSON**.
* Used Python library BeautifulSoup for web scrapping to extract data for building graphs.
* MySQL Procedures and UNIX Shell Scripts were designed and developed for Data Import/Export and Conversions.
* Generated Python Django Forms to record data of online users.
* A Django dashboard with a 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.
* For sending and receiving the data between multiple systems **RESTful Web-Services** were implemented.
* To avoid the reloading of the entire web page to update small portions, **AJAX** in UI was used.
* Collaborated with QA to build and populate DB and to ensure the standards.
* JIRA was used to build an environment for development.

**Environment**: **Python 3.5/3.6, Django 1.4, PostgreSQL, Java Script, HTML, AJAX, jQuery, JSON, XML, CSS, MySQL, Bootstrap, Git, Linux, PyCharm, JIRA, Jenkins, AWS.**

**Software Developer**

**PayPal, Inc. - San Jose, CA. March 2015 to December 2016**

**Description:** PayPal Holdings, Inc. is an American company operating a worldwide online payments system that supports online money transfers and serves as an electronic alternative to traditional paper methods like checks and money orders. Developed an application that fetches the reports and other data from the website and fills that data into the respective tables into the database. Analysts can use that data to generate reports and other visualizations.

**Responsibilities**:

* Associated with various phases of Software Development Life Cycle (SDLC) of the application like requirement gathering, Design, Analysis and Code development.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Generated Python Django Forms to record data of online users.
* Responsible for designing and developing front and back end of the applications utilizing python on Django and flask frameworks.
* Used Django Database API's to access database objects.
* Involved in designing user interactive web pages as the front-end part of the web application using various web technologies like HTML, JavaScript, AngularJS, jQuery, AJAX and implemented CSS for better appearance.
* Managed datasets using Panda data frames and MySQL queried MYSQL database queries from python using Python-MySQL connector and MySQL DB package to retrieve information.
* Wrote and executed various MYSQL database queries from python using Python MySQL connector and MySQL dB package.
* Used MySQL as the backend database and **MySQL dB** of python as database connector to interact with **MySQL** server.
* Involved in design, implementation and modifying the **Python code** and **MySQL** database schema on-the-back end.
* Had regular interactions with customers and gathered requirements in Big Data collation, summation, filtering and normalizing the data.
* Exposure to Multi-Threading factory to distribute learning process back-testing and into various worker processes.
* Developed python/Django based web application, **PostgreSQL** DB, and integrations with 3rd party email messaging storage services.
* Wrote **Python** scripts to parse **JSON** documents and load the data into the database.
* Used **AJAX** to update small portions of the web page instead of reloading the entire web page.
* Responsible for setting up **Python REST** API framework using Django.
* Used NumPy and Matplotlib libraries. Created bar charts using matplotlib library.
* Followed Agile methodology and involved in daily SCRUM meetings, sprint planning, show cases, and retrospective and used **JIRA** as a tracking tool for the sprints.
* Developed and tested many features for a dashboard using **Python, Bootstrap, CSS, JavaScript,** and **jQuery.**
* Created and populated digital brochures using Page Turn Pro and built photo galleries on the website in the Django CMS and using **Django CMS** plugin.
* Implemented automate scripts to back up the old records using MongoDB export command and transfer these backup files into the backup machine using **ftplib.**
* Interfacing with supervisors, artists, systems administrators, and production to ensure production deadlines are met.
* Collaborated with internal teams to convert end-user feedback into meaningful and improved solutions.

**Environment: Python 3.6, Django 1.4, MySQL, Shell Scripting, REST, HTML5, CSS3, Bootstrap, JavaScript, AngularJS, jQuery, JSON, AJAX, Matplotlib, PostgreSQL, PyTest, Sublime, JIRA, GIT.**

**Software Developer**

**Eventbrite – San Francisco, CA April 2013- February 2015**

**Description:** Eventbrite is a U.S.-based event management and ticketing website. The service allows users to browse, create, and promote local events.

**Responsibilities:**

* Created Python and Bash tools to increase the efficiency of retail management application system and operations; data conversion scripts, **AMQP/RabbitMQ, REST, JSON,** and **CRUD** scripts for API Integration.
* Developed **Python**-based API (RESTful Web Service) to track the events and perform analysis using Django.
* Developed entire frontend and backend modules using **Python** on **Django** Web Framework.
* Worked on Machine learning library scikit-learn for analysis of numerical and scientific data along with libraries NumPy and SciPy.
* Worked on several python libraries like **Python, NumPy,** and **matplotlib** and used **XML** Web Services using SOAP to transfer information to the Credit Monitoring Systems.
* Involved in Using **Python, Flask,** and **AngularJS** for the design, development, and deployment of the application.
* Worked on **Pandas API** to put the data as time series and tabular format for easy timestamp data manipulation and retrieval.
* Designed and developed the UI of the website using **HTML, AJAX, CSS,** and **JavaScript**.
* Developed **UDF's** using **python** and implemented graphs using python with big data analytics.
* Design, develop, test, deploy and maintain the website and used Django Database API's to access database objects.
* Wrote Python scripts to parse **JSON** documents and load the data into the database.
* Used Python and Django to interface with the **jQuery UI** and manage the storage and deletion of content.
* Implemented web applications in Flask frameworks following MVC architecture.
* Worked on front-end frameworks like **CSS Bootstrap** for development of Web applications.
* Involved in the deployment of the project using AWS.
* Unique skills in developing user-friendly, simple yet effective web-based applications.
* 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.
* Developed web-based applications using Python, Django, XML, CSS, HTML, DHTML, JavaScript and jQuery.
* Successfully migrated the Django database from SQLite to **MySQL** to **PostgreSQL** with complete data integrity.
* Developed Merge jobs in Python to extract and load data into **MySQL** database.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, Java Script, and jQuery.
* Executed various MYSQL database queries from python using **Python-MySQL** connector and **MySQL** dB package.
* Using Django evolution and manual SQL modifications were able to modify Django models while retaining all data, while the site was in production mode.
* Generated property list for every application dynamically using Python and created unit test/regression test framework for working/new code.
* 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
* Different testing methodologies like unit testing, Integration testing, web application testing, Selenium testing performed.

**Environment:** Python 3.3, Django 1.10,1.11, MySQL, Shell Scripting, REST, HTML5, CSS3, Bootstrap, JavaScript, jQuery, React, JSON, AJAX, Matplotlib, PyTest, Sublime, JIRA, SVN, scikit-learn.

**Software Engineer**

**SITEL Group India– Hyderabad, India October 2010- March 2013**

**Description:** Headquartered in Miami, Florida. SITEL group combines comprehensive customer care capabilities with unparalleled digital, training and technology expertise to help build brand loyalty and improve customer satisfaction. Partner with clients to effectively harness industry’s explosive digital transformation to ensure an innovative, end-to-end solution to managing and enhancing the customer experience.

**Responsibilities:**

* Involved in the software development lifecycle (SDLC) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Involved in designing user interactive web pages as the front-end part of the web application using various web technologies like HTML, JavaScript, Angular JS, jQuery, AJAX and implemented CSS for better appearance and feel.
* Knowledge of cross-browser and cross-platform development of HTML and CSS based websites in Windows like IE 6, IE 7, IE 8 and FF.
* Interactive in providing change requests, trouble reports and requirements collection with the client.
* Actively involved in developing the methods for Create, Read, Update and Delete (CRUD) in Active Record.
* Used NumPy for Numerical analysis for the Insurance premium.
* Used Robot Test automation framework for Testing of the GUI of the application.
* Implemented and modified various SQL queries and Functions, Cursors and Triggers as per the client requirements.
* Managed code versioning with GitHub, and deployment to staging and production servers.
* Implemented MVC architecture in developing the web application with the help of Django framework.
* Used Celery as task queue and Rabbit MQ, Redis as messaging broker to execute asynchronous tasks.
* Designed and managed API system deployment using fast HTTP server and Amazon AWS architecture.
* Involved in code reviews using GitHub pull requests, reducing bugs, improving code quality, and increasing knowledge sharing
* Implemented monitoring and established best practices for using elastic search.
* Working under UNIX environment in the development of application using Python and familiar with all its commands.
* Developed remote integration with third-party platforms by using RESTful web services.
* Updated and maintained Jenkins for automatic building jobs and deployment.
* Worked on debugging and troubleshooting programming related issues.
* Worked in MySQL database on simple queries and writing Stored Procedures for normalization.
* Deployment of the web application using the Linux server.

**Environment**: Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, JavaScript, Backbone JS, jQuery, Mongo DB, MS SQL Server, JavaScript, Git, GitHub, AWS, Linux, Shell Scripting, AJAX.

**SQL Developer**

**Napier Healthcare Pvt. Ltd - Chennai, India. June 2009- June 2010**

**Description:** Napier Healthcare was established in 1996 as a Healthcare IT Products and Services Company. With deep domain knowledge and singular focus, we have built a robust, feature-rich suite of solutions to deliver value to the stakeholders of the healthcare industry worldwide.

**Responsibilities:**

* Analysed business requirements and build logical data models that describe all the data and relationships between the data.
* Created new database objects like Procedures, Functions, Packages, Triggers, Indexes, and Views using T-SQL in SQL Server 2000.
* Validated change requests and made appropriate recommendations. Standardized the implementation of data.
* Promoted database objects from test/develop to production. Coordinated and communicated production schedules within the development team.
* Modified database structures as directed by developers for test/develop environments and assist with coding, design and performance tuning.
* Working on existing application enhancements and adding new functionalities.
* Managed user access. Created and managed new security accounts.
* Used Joins, correlated and non-correlated sub-queries for complex business queries involving multiple tables from different databases.
* Analysing and providing fixes for all issues arises during business hours and have dataflow continue.
* Created Views to facilitate easy user interface implementation and Triggers on them to facilitate consistent data entry into the database.
* Analysed data by creating simple SQL queries and identified fact and dimension tables.
* Restricted data for users using Row level security and User filters.
* Performed Data Analysis and Data validation by writing complex SQL queries using SQL against the SQL server database.
* Created the DTS Package through ETL Process to vendors in which records were extracts from Flat file and Excel sources and loaded daily at the server.
* Provided back-end support for functional testing and performance testing.

**SKILLS:**

Python (8 years), Django (7 years), HTML (7 years), MySQL (7 years), JSON (7 years), XML (7 years), AJAX (6 years), CSS (7 years), JavaScript (7 years), Angularjs (4 years), Apache (7 years), SQL (8 years).

**EDUCATION**:

* Bachelor’s in Computer Science, Gandhi Institute of Technology and Management (GITAM University)

(2009), India.