**SAHITHYA V**

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## PROFESSIONAL-SUMMARY:

**9 years of experience** in designing, developing web based enterprise application development in analytical programming using Python technologies.

* Extensive experience in **Python**, **Django**.
* Expertise in creating web based application using various technologies like Angular JS, JavaScript, AJAX, JQuery, Bootstrap, HTML5, and CSS3.
* Extensive experience on MySQL and SQL server.
* Used Python Data structures like sqlite3, lists, dictionaries, and tuples.
* Experienced in working with RegEx, complicated List comprehensions and various built-in functions like map, filter etc.
* Experienced in working with various **Python** IDE's using PyCharm, PyScripter, Spyder, PyStudio and PyDev.
* Expert knowledge and experience in Object-oriented Design and Programming concepts.
* Experience in implementing with server-side technologies with restful API and MVC design patterns with node JS and **Django** framework.
* Preparing the project plans and schedule, assigning the project tasks to other team members.
* Involved in all stages of development life-cycle including architectural and database design of the application.
* Made **Django** web based apps for Insurance premium calculations.
* Experienced in NoSQL technologies like MongoDB, Cassandra and relational databases like Oracle, SQLite, PostgreSQL, Dynamo DB and MySQL databases.
* Knowledge on building iPhone apps for different screen resolutions and orientations with rich user interface.
* Experience in project deployment using Google Cloud/Jenkins, Elastic Search and using web Services like Amazon Web Services (AWS).
* Worked on AJAX framework to transform Datasets and Data tables into HTTP Serializable JSON strings.
* Proficient in developing complex SQL queries, Stored Procedures, Functions, Triggers, Cursor and packages along with performing DDL and DML operations on the MySQL and PostgreSQL database and modified Stored Procedures and complex T-SQL Queries to improve query execution process.
* Strong knowledge with REST API development and good idea using debugging tools like Bugzilla and JIRA.
* Good experience using various **Python** libraries to speed up development (Beautiful Soup, NumPy, SciPy, Matplotlib, python-twitter, Pandas data frame, network, urllib2, MySQL dB for database connectivity, JSON libraries)
* Performed code reviews and implemented best **Pythonic** programming practices
* Extensive experience in integration, debugging, design, analysis and implementation.
* Mentoring new members and training them with domain knowledge and technologies.
* Experience in working in agile scrum development methodology.
* Excellent interpersonal abilities, communication skills, time management and team skills with an intention to work hard to attain project deadlines under stressful environments.
* Flexible and versatile to adapt to new- environment and technologies

## **TECHNICAL SKILLS:**

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| **Languages** | **Python 3.x , 2.7 , PHP ,Java** |
| **Web Technologies** | **HTML5, CSS3, Ajax, JavaScript, JQuery, AngularJS , JSON, XML, SAML** |
| **Tools/IDE** | **PyCharm, Eclipse, IDLE, Toad, Workbench, SoapUI, PuTTY, JIRA, NetBeans** |
| **Frameworks** | **Django framework, Flask framework,Pytest** |
| **Databases** | **MySQL, MongoDB, CouchDB, GAE datastore, PostgreSQL** |
| **Cloud Services** | **AWS EC2/RDS instances, GAE** |
| **Repositories** | **SVN, GIT** |
| **Operating Systems** | **Windows, Linux, Ubuntu, Mac OSX** |

## **PROFESSIONAL EXPERIENCE**

**Client: Bank of America**

**Location: NC, Charlotte**

**Duration: April 2016 to Till Date**

**Role: Sr. Python Developer**

**Description:**

Bank of America is one of the world's largest financial institutions, serving individuals, small and middle market businesses and large corporations with a full range of banking, investing, asset management services. Working on a Fraud Transaction Analyzer, which is a full scope project that can be used by the Bank of America's internal team to analyze and generate reports for the fraud transactions reported. This project helps to timely monitor and respond to the reports and keep an active check on different transactions.

**Responsibilities**:

* Designed and developed Application based on the **Django** MVT Framework using MVT design pattern.
* Developed the REST API using **Django** for fetching the data from NoSQL MongoDB database.
* Implemented the client code for consuming the REST Web Services.
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Generated **Python** **Django** forms to record data of online users and used PyTest for writing test cases.
* Developed single page web application using Angular JS, HTML5, CSS3, Bootstrap, jQuery for interactive cross-browser functionality.
* Used Angular JS framework for single page applications and validating the client-side user information based on their business rules.
* Responsible for debugging, testing, maintaining and deploying the application.
* Used Jira for defect tracking and project management.
* Worked on **Python** OpenStack API's.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Built various graphs for business decision-making using **Python** matplotlib library.
* Used **Django** configuration to manage URLs and application parameters.
* Build all database mapping classes using **Django** models and Cassandra.
* Used Test driven (TDD) approach for developing the application and Implemented the unit tests using **Python** Unit test framework and for Automation used Robot Framework.
* Also, used Bootstrap as a mechanism to manage and organize the HTML page layout.
* Used several **python** libraries like numPY, Pandas and matPlotLib.
* Detect Failures using Python PyTest framework
* Built all database mapping classes using **Django** models.
* Involved in development of RESTful Web Services for getting and sending data from the external interface in the JSON format.
* Performed troubleshooting, fixed and deployed many **Python** bug fixes of the main applications that were sources of data for both customers and internal customer service team.

**Environment: Python**, **Django**, numPY, Pandas, AWS, Pytest, JSON, REST, HTML, CSS, AJAX, jQuery, XML, SOAP, Jira, Agile, SQL, MYSQL, MongoDB and Windows.

**Client: NTT Data**

**Location: Dallas, Texas**

**Duration: February 2015 to March 2016**

**Role: Python / Django Developer**

**Responsibilities:**

* Involved in various phases of the project like analysis, design, development, and testing.
* Built farm data and load into the Post Gresql database using SQL Alchemy.
* Used Jquery Ajax calls to build dynamic websites.
* **Django** Framework that was used in developing web applications to implement the model view control architecture.
* For database access **Django** API's/Models 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 Bash scripting and to create a user-friendly website interface **Django's** view controller and template language is used.
* Written numerous **Django** views (class based) and templates for page rendering.
* Extensively used closures in JavaScript framework.
* 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.
* Developed user interface solutions using a **Django** and Pyramid web framework. Used **Python** scripts to update content in the database and manipulate files.
* For the extraction of data from the database various queries were written and a database was created using MYSQL.
* Build JSON objects using the framework which will be used by JavaScript to control the flow of the page. Resolved performance related issues using efficient coding.
* Develop dynamic web pages using HTML, CSS, JavaScript and AJAX.
* Worked on Bug fixes.
* Installed numerous **Python** modules.
* For sending and receiving the data between multiple systems RESTful Web-Services were implemented.
* Created numerous reports using report lab and xlrt/xlwt **Python** packages.
* Extensively used **Python** requests module to call web service.
* Version control using GitHub and involved in writing stored procedures using MySQL.

**Environment: Python**, **Django**, HTML5, CSS, XML, REST, MySQL, JavaScript, jQuery, MS SQL Server, AJAX, GitHub, PHP.

**Client : JPMorgan Chase**

**Location : Newark, DE**

**Duration : October 2013 to January2015**

**Role : Sr Python Developer**

**Description:** JPMorgan Chase is a leader in investment banking, financial services for consumers and small business, commercial banking, financial transaction processing, and asset management. The project's main aim is to handle business accounts and card transactions. We developed an application to generate the tickets which would help bank employees.

**Responsibilities:**

* Worked with a team of developers on **Python** applications for cards management of the bank.
* Designed the database schema for the content management system.
* Designed and developed the website UI using HTML, CSS, XHTML, AJAX and JavaScript.
* Involved in the development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Used PHP to write dynamically generated pages quickly.
* Experienced **Python** on LINUX for execution.
* Expertise in performing Unit testing using Pyunit framework and Test Automation used Robot Framework along with Error Logging using Sentry.
* Wrote **Python** routines to log into the websites and fetch data for selected options.
* Performed testing using **Django's** Test Module.
* Web pages on the internet are generated by LINUX servers.
* Maintained program libraries, users' manuals and technical documentation.
* Responsible for debugging and troubleshooting the web application.
* Worked PHP as a server-side scripting language, for web pages.
* Successfully migrated all the data to the database while the site was in production.
* Worked on scripts for setting up the discovery client with attribute data. Worked on scripts for setting up adapter attributes of Granite System.
* Developed automated unit and regression testing frameworks for a highly efficient quality assurance system.
* Developed applications using MongoDB, Redis, and MySQL.
* Wrote bash scripts to deploy application using Shell Scripting.

**Environment: Python**, **Django**, HTML5, CSS, XML, MySQL, JavaScript, jQuery, MongoDB, MS SQL Server, JavaScript, Git Hub, AWS, Linux, Shell Scripting, AJAX, JAVA, PHP.

**Client : Cisco**

**Location : San Jose, CA**

**Duration : September 2012 to Sep 2013**

**Role: Python Developer**

**Description:** Cisco is an American multinational technology that develops, manufactures, and sells networking hardware, telecommunications equipment, and other high-technology services and products. The main goal of the project is to report IT, security, mobility problems faced by the customers and suggest solutions to them. We developed a website for reporting issues and finding solutions to that problems easily

**Responsibilities:**

* Used **Django** Database API’s to access database objects.
* Used JQuery and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Involved in building database Model, APIs and Views utilizing **Python**, in-order to build an interactive web based solution.
* Used Amazon Web Services (AWS) for improved efficiency of storage and fast access.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Involved in front end and utilized Bootstrap and Angular.js for page design.
* Created Data tables and display customer and policy information and add, delete, update customer records
* Used PyQuery for selecting particular DOM elements when parsing HTML.
* Used Pandas API to put the data as time series and tabular format for east timestamp data Manipulation and retrieval.
* Created Business Logic using **Python** to create Planning and Tracking functions
* Created UI Screens for initiation and validation.
* Used Pandas library for statistical Analysis.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Working in team of Architects and Developers to build and deploy **Python** Flask Peewee Linux AWS.
* Version control using GITHub.
* Involved in writing stored procedures using MySQL.
* Developed Business Logic using **Python** on **Django** Web Framework.
* Developed views and templates with **Python** and **Django’s** view controller and templating language to create.

**Environment: Python**, **Django**, HTML5, CSS, XML, MySQL, JavaScript, jQuery, MS SQL Server, JavaScript, Git Hub, AJAX

**Client : Softunique Info Solutions**

**Location : Bangalore, Karnataka**

**Duration : October 2011 to July 2012**

**Role : Software Developer**

**Responsibilities**:

* Developed entire frontend and backend modules using **Python** on **Django** Web Framework.
* Work with team of developers on **python** applications for RISK management.
* Designed and developed the UI of the website using HTML, AJAX, CSS and JavaScript
* Made **Django** web based apps for Insurance premium calculations.
* Generated property list for every application dynamically using **Python**.
* Rewrite existing Java, C++ application in **Python**.
* Used **Django** APIs for database access.
* Used **Python** to extract weekly hotel availability information from XML files.
* Used Pandas library for statistical Analysis.
* Used Apache Couchdb (NoSQL) in AWS Linux instance in parallel to RDS MySQL to store and analyze job market info.
* Developed ColdFusion Components, custom tags and modified CF Objects.
* Designed the architecture of the hardware environments and methodology of the code.
* Involved in entire life-cycle of the projects including Design, Development, and Deployment
* Wrote AJAX framework to transform Datasets and Datatables into HTTP-serialize JSON strings.
* Build SQL, NO SQL queries implementing functions, packages, views, triggers, and tables.

**Environment: Python**, **Django**, Java Script, HTML, JQuery, JSON, AJAX, XML, CSS, Oracle, MySQL, Bootstrap, SOAP Web Services, Beautiful Soup, Jenkins, SVN, Linux, Eclipse.

**Client : Par Pharmaceutical**

**Location : Chennai , India**

**Duration : September 2008 to April 2011**

**Role : Software Developer**

**Description:** The Project is of drug development and treatment tracking system. Also Worked on conversion of Sales/Back Office Integration system from PHP to **Python**/**Django** System.

**Responsibilities:**

* Involved understanding the current business process, defining scope of the project along with position statement
* Re-engineered various modules for implementing changes and creating efficient system.
* Developed dynamic web pages using python **Django** Frameworks.
* Used **Python** and **Django** creating graphics, XML processing, data exchange and business logic implementation
* Supported Apache Server on Linux Platform.
* Installation and setting up **Python**/Unix test beds
* Created use-case scenarios and storyboards in MS Word and MS PowerPoint for better visualization of the application.
* Write Automation/test **python** scripts to test.
* Flex development exposure of Flex layout and navigation, event handling, pop-up dialog’s, menus and skinning.
* Used HTML, CSS for front-end applications.
* Used **python** scripts to update content in the database and manipulate files.
* Resolved issues and improvised the process to ensure a stable and accurate solution.
* Generated **Python** **Django** Forms to record data of online users
* Held meetings with client and worked all alone for the entire project with limited help from the client.
* Worked on writing and as well as read data from csv and excel file formats
* Provided technical and business knowledge to clients. Analyzed data using Excel VBA scripts and Macros
* Managed requirements and tasks using JIRA
* Data mapping, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data within the Oracle database.

**Environment:** MS Visio, JIRA, UML, Python 2.7, JAVA, Sublime text2(IDE) Windows 7, SQL, Requests, urllib, urllib2, Django,PHP.