**SRINIVAS.V**

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**Professional Summary:**

* 10 Years of experience in Analysis, Design, Development, Testing, Customization, Bug fixes, Enhancement, Support and Implementation of various web, stand - alone, client-server enterprise applications using Python, C, Django, Django Rest Framework in various domains.
* Experience of software development in Python (libraries used: libraries- Beautiful Soup, numpy, scipy, matplotlib, python-twitter, OpenCV, Pandasdata frame, network, urllib2, MySQL dB for database connectivity) and IDEs - sublime text, Spyder, pycharm, emacs.
* Experience in implementing python alongside using various libraries such as mat plotlib for charts and graphs, MySQL db for database connectivity, python-twitter, PySide, Pickle, Pandas data frame, network, urllib2.
* Exceptionally solid background in composing API's along with Web Services over Python.
* Good working knowledge of Deep Learning Python libraries. Worked on Anaconda Python Environment.
* Experience with Design, code, and debug operations, reporting, data analysis and web applications utilizing Python.
* Backend applications using Python/Django and SQL/ PostgreSQL. Hands-on experience in writing and reviewing requirements, architecture documents, test plans, design documents, quality analysis and audits.
* Experience in AWS Cloud services such as EC2, S3, EBS, VPC, ELB, Route53, Cloud Watch, Security Groups, Cloud Trail, IAM, Cloud Front, Snowball, RDS and Glacier. Hands on experience on using SVN, Git, JIRA, Bugzilla, Axosoft, Confidential EC2/S3.
* Experience in job workflow scheduling and monitoring tools like Airflow and Autosys.
* Experience in Setup hosting on AWS EC2 instance and used Confidential SES for email delivery and hands-on experience on SCM tools like GIT, containers like Docker etc.
* Experienced on working with Docker for creating images that are deployed on AWS as Microservices and Experienced on managing the local deployments in Kubernetes and creating local cluster and deploying application containers.
* Experience with Docker containers and container orchestration systems such as Confidential ECS, Kubernetes and Docker Swarm.
* Experience with JSON based REST Web services and Confidential Web services (AWS) and Responsible for setting up Python REST API framework and spring frame work using Django.
* Strong expertise in development of web-based applications using Python, Java, HTML, XML, KML, Angular JS, CSS, DHTML, JavaScript, JSON and jQuery.
* Experience in working with Python ORM Libraries including Django ORM, SQLAlchemy.
* Experience in implementing with server side technologies with restful API and MVC design patterns with node JS and Django framework.
* Experience with ORM's such as Django, database design and normalization. Proficient skills of using PyUnit, PyTest for writing unit test cases.
* Expertise in test automation and continuous delivery of web applications, client server applications, web services/REST APIs Testing, with Python.
* Hands on experience in using NOSQL libraries like MongoDB, Cassandra, Redis and relational databases like Oracle, SQLite, PostgreSQL and MYSQL databases.
* Proficient in SQL databases MySQL, Oracle and no-SQL databases MongoDB, Cassandra, Sqlite 3.
* Proficient in Front end development experience using HTML, XML, CSS, JQuery, JSON and Javascript, CSS, Bootstrap.
* Integrated Jenkins with AWS cloud infrastructure for Continuous Integration and Continuous deployment.
* Experience object oriented programming (OOP) concepts using Python, C++ and PHP.
* Experienced in WAMP (Windows, Apache, MYSQL, and Python/PHP) and LAMP (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Experience with JSPm Servlets, Web Services (SOAP, REST) and Tomcat. Effective in executing multiple tasks and assignments ahead of schedule. Created and maintained effective budgets.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database.
* Experienced in developing web-based applications using Python, Django, AWS, WSGI, PostgreSQL, Redis, HTML, CSS, JavaScript, jQuery, and XML.
* Excellent experience with Python development under Linux OS (Debian, Ubuntu, SUSE Linux, RedHat Linux, Fedora).
* Experience in leading multiple efforts to build Hadoop platforms, maximizing business value by combining data science with big data.
* Experience in installing, configuring and using eco-System components like Hadoop MapReduce, HDFS, Hbase, Pig, and Flume. Hands-on experience in UNIX and Linux Kernels. Experience in the Hadoop ecosystem components like HDFS, Spark with Scala and python, Zookeeper, Yarn, MapReduce, Pig, Sqoop, HBase, Hive, Flume, Cassandra, MongoDB, Oozie, Kafka, Flume, and TEZ.
* Worked on AWS EC2/VPC/S3/SQS/SNS based on automation Terraform, Ansible, Python, Bash Scripts.
* Experience in importing the historical data from RDBMS into HDFS using Sqoop.
* Experience Unit testing, Integration Testing and generating of test cases for web applications using Junit and Python Unit test framework Hudson/Jenkins in the builds triggered by each push to GIT.
* Exposure in building CI/CD pipelines in container-based fashion using Docker, Jenkins, UBUNTU, and Ansible& GitLab. And Experienced with GITHUB, GITLAB, SVN and MAVEN build tool.
* Experience with Apache Kafka JMS and Rabbit MQ as the message oriented middleware.

**Technical Skills:**

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| **Operating systems:** | Windows, Linux, MAC, UNIX |
| **Languages:** | Java, C, C++, Python, 3.x/2.x |
| **Scripting languages:** | CSS, AJAX, Java Script, JQuery, PHP, Shell Scripting |
| **Analytics Tools:** | SAS, Tableau, Databricks, Autosys. |
| **Markup languages:** | HTML, XML, JSON, Bootstrap |
| **Databases:** | Oracle, My SQL, Postgress, Apache Cassandra, MongoDB. |
| **Virtualization:** | xen, vmware, virtualbox, openstack, vagrand, docker, lxc, lxd |
| **Methodologies & tools:** | Object Oriented Programming, UML, Agile Scrum, Waterfall |
| **MS office tools:** | Microsoft Excel (Super user), Microsoft word, Microsoft PowerPoint |
| **Microservices:** | Docker, Ansible, Jenkins |
| **Cloud Services:** | AWS, Azure, Kubernetes |
| **Testing Frameworks:** | PyUnit, Splunk, Selenium |
| **Message Queue:** | ActiveMQ, RabbitMQ |
| **IDEs/ Tools:** | Eclipse, Toad, Sublime text, PyCharm, Pgadmin, SQLite |

**Professional Experience:**

**Client: UBS, NJ Nov 2022 – Present**

**Role: Full stack Python Developer**

**Responsibilities:**

* Automate different workflows, which are initiated manually with Python scripts and UNIX shell scripting.
* Create, activate and program in Anaconda environment.
* Use Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in-line with Agile Software Development methodologies.
* Develop Sqoop scripts to handle change data capture for processing incremental records between new arrived and existing data in RDBMS tables.
* Installed Hadoop, Map Reduce, HDFS, and AWS and developed multiple MapReduce jobs in PIG and Hive for data cleaning and pre-processing.
* Manage datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information.
* Involved in the Web/Application development using Python 3.5, HTML5, CSS3, AJAX, JSON and Jquery.
* Develop and tested many features for dashboard using Python, Java, Bootstrap, CSS, JavaScript and Jquery.
* Generated Python Django forms to record data of online users and used PyTest for writing test cases.
* Implemented and modified various SQL queries and Functions, Cursors and Triggers as per the client requirements.
* Experience in as front-end developer with React.js framework only Expertise python scripting with focus on DevOps tools, CI/CD and AWS Cloud Architecture.
* Implemented workflow sequences using scheduling tools-Apache Airflow and Autosys.
* Clean data and processed third party spending data into maneuverable deliverables within specific format with Excel macros and python libraries such as NumPy, SQLAlchemy and matplotlib.
* Used Pandas as API to put the data as time series and tabular format for manipulation and retrieval of data.
* Helped with the migration from the old server to Jira database (Matching Fields) with Python scripts for transferring and verifying the information.
* Analyze Format data using Machine Learning algorithm by Python Scikit-Learn.
* Experience in python, Jupyter, Scientific computing stack (numpy, scipy, pandasand matplotlib).
* Perform 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.
* Experience in migration of PySpark framework into AWS Glue for enhanced processing.
* Write Python scripts to parse JSON documents and load the data in database.
* Generating various capacity planning reports (graphical) using Python packages like Numpy, matplotlib.
* Analyzing various logs that are been generating and predicting/forecasting next occurrence of event with various Python libraries.
* Developed single page application by using Angular JS backed by MongoDB and NodeJS.
* Design and maintain databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Manage code versioning with GitHub, Bit Bucket and deployment to staging and production servers and implement MVC architecture in developing the web application with the help of Django framework.
* Use Celery as task queue and RabbitMQ, Redis as messaging broker to execute asynchronous tasks.
* Design and manage API system deployment using fast http server and Amazon AWS architecture.
* Develop remote integration with third party platforms by using RESTful web services and Successful implementation of Apache Spark and Spark Streaming applications for large scale data.
* Built various graphs for business decision making using Python mat plotlib library.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format. Used Ansible platform to scale application on AWS cloud.
* Deploy docker based applications written in Python/Flask to AWS ECS, a container orchestration service.
* Export Test case Scripts and modified the selenium scripts and executed in Selenium environment.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Scraping website using Python Beautiful Soup, and then parsed it with XML.
* Outputting the parsed data as JSON/BSON and stored into MongoDB
* Used NLTK and StanfordNLP to process text data and created offline intelligence.
* Querying data from MongoDB and use them as input for the machine learning models
* Using AWS for application deployment and configuration.
* Wrote UNIX shell scripting for automation.
* Developed views and templates with Django view controller and template Language to create a user-friendly website interface.
* Used JavaScript and JSON to update a portion of a webpage.
* Develop consumer-based features using Django, HTML and Test-Driven Development (TDD).
* Developed Python web services for processing JSON and interfacing with the Data layer.
* Increased the speed of pre-existing search indexes through Django ORM optimizations.
* Developed module to build Django ORM queries that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.

**Environment**: Python 2.7, Django, HTML5/CSS, PostgreSQL, MS SQL Server 2013, Autosys, MySQL, JavaScript, Jupyter Notebook, VIM, Pycharm, Shell Scripting, Angular.JS, JIRA, AWS.

**Client: Spectra Labs, NJ Feb 2022 – Oct 2022**

**Role: Full Stack Python developer**

**Responsibilities:**

* Instigated user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and jQuery.
* Implemented color and movement detection using API module which alerts user in real time in case of any theft at home
* Participated in Daily SCRUM meetings with the development teams in an AGILE environment and developed scripts in Python for AWS.
* Developed views and templates with Python and Django's view controller and Templating language to create a user-friendly website interface.
* Developing python programs by using boto3 to implement security by using AWS Cognito service.
* Worked DevOps methodologies and cloud infrastructure automation tools like AWS.
* Refactor Python/Django modules to deliver certain format of data.
* 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.
* Experience in handling REST and SOAP, API Web Services and have Knowledge of Servers like Apache Tomcat and Web Logic
* Perform data transformations with Apache Spark (PySpark) on Databricks to write to AWS S3.
* Reviewed codes in Shell Script, Pearl, Python, Javascript, AWK, API C++, PL/SQL & T-SQL; created subprograms, procedures and functions, DB triggers, cursors and optimization techniques for T-SQL.
* Coordinated activities between Development, API , QA, and Product Management to ensure
* Designed a python script to load transformed data into cloud services (AWS, Azure, and GCP).
* Wrote Python scripts to parse XML documents and load the data in database.
* Parsers written in Python for extracting useful data from the design data base.
* Development of Python APIs to dump the array structures in the Processor at the failure point for debugging.
* Engineered a data processing pipeline with GCP, API, CSS, API & OpenSlide APIs to pre-process large-scale
* Utilized STL and C++ algorithms to achieve optimal design efficiency.
* Design and develop solutions using C, C++, Multi-Threaded, Shell Scripting.
* Wrote Python Scripts to handle REST API's to retrieve Network data from data centers.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Used python libraries- API and pydicom, to parse medical imaging data.
* Developed applications using mix of technologies (Python, Django, Flask, API CSS, REST, and SOLR).
* Involved in working with python open stock API’s.
* Written functional test cases for Data Layer, and Search server classes using Django, XML base services, and RESTFUL.
* Created the Automation scripts using Python for testing applications as well as the integration of these application (API's &UI's) based on REST calls using Python, phrasing the JSON responses.
* Creating restful web services for Catalog and Pricing with Django MVT, Jersey, API, JAVASCRIPT, MySQL, and RESTFUL .
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.

**Environment**: Python 3.4/2.7, Django 1.7, RESTFUL, MySQL, C++, CSS, HTML, API , AJAX, API, GCP,, AWS, REST, GCP, REST , SOAP, jQuery, JavaScript, PyCharm.

**Client: BiggWorks, India Apr 2019 – Aug 2021**

**Role: Python developer**

**Responsibilities:**

* Developed Python Django forms to record data and the Login module page for users.
* Designed email marketing campaigns and created interactive forms that saved data into database using Django Framework.
* Developed the automated process for processing the payer acknowledgements that helped in resubmitting the medical claims automatically using PERL and DBI modules.
* Worked on Technologies: QT, JAVASCRIPT, QML, and unit test, C++, QNX, UML API, JavaScript and Json.
* Used collections in Python for manipulating and looping through different your defined objects and worked in Test driven development with Behave in Python.
* Also have rich experience on testing REST Full API like Facebook and Twitter.
* Wrote Python routines to log into the websites and fetch data for selected options.
* Improving the performance while processing data by modifying functions, queries, cursors, triggers and stored procedures for MySQL database.
* Extracted data from XML files using PERL -XML modules.
* Developed the consumer-friendly front-end with an easy-to-use API UI and fast access RESTFUL.
* Worked with JSON based REST Web services.
* Use of API , Open NLP & Stanford NLP for Natural Language Processing and sentiment analysis .
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Developed views and templates with python and Django's view controller and Templating language to create a user-friendly website interface.
* 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.
* Participated in the complete SDLC process and used PHP to develop website functionality.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, unittest, GCP CSS, JAVASCRIPT and JavaScript.
* Developed entire frontend and backend modules using python on Django Web Framework.
* Designed and developed data management system using MySQL.
* Used Django APIs for database access and built application logic using python.
* Provided GUI utilizing PyQt for the end user to create, modify and view reports based on client data.
* Used python to extract information from XML files.
* Expertise in Service Oriented Architecture (SOA) and its related technologies like Web Services, BPEL, WSDLs , AWS, SOAP, API, XML, XSD, XSLT etc.
* Worked on development of SQL and stored procedures on MYSQL and designed Cassandra schema for the APIs.
* Designed and developed a horizontally APIble APIs using python Flask and implemented monitoring and established best practices around using elastic search.

**Environment**: Python, Django, API, Behave, Puppet Rspec, Jenkins, unit test, Grafana Graphite, MySQL, Linux, HTML, CSS, Bootstrap, RDS JQuery, API, AWS, JavaScript, GCP, Apache, Linux, Git, C++, API, SOAP, RESTFUL, REST, Perl, Cassandra, Azure Automation cloud services.

**Client: QuantsApp, India Oct 2016 – Mar 2019**

**Role: Python developer**

**Responsibilities:**

* Created or identified state-of-the-art computational mechanics algorithms that extend modeling capabilities, implement as software suitable for high-performance computers, and document their verification.
* Wrote script or program to automate analysis tools to streamlining the evaluation of initial data for integrity.
* Using Python package created an interface automate import and exporting drawing and extracting standard data for manufacturing purpose.
* Built application and program to streamline the cavity development and process and generate documentation from the design and via versa.
* Used Python Flask framework to build modular & maintainable applications.
* Automated data movements using Python scripts. Involved in splitting, validating and processing of files.
* Created core Python API which will be using among multiple modules.
* Participated in developing web application UI using HTML, CSS, JavaScript.
* Uploaded statistics to MySQL for analysis and logging.
* Developed complex SQL queries for testing the database functionality.
* Used UNIX server for application deployment and configuration.
* Wrote shell scripting for automation.
* Designed database schema design and defined relationships between tables.
* Provided technical assistance for maintenance, integration and testing of software solutions during development and release processes.
* Created unit test/regression test framework for working/new code.
* Controlled backend logic using Python.
* Provided design/CAD team strong scripting capabilities in SKILL, PERL, Ocean, Linux Shell, etc.
* Interface with CAD tool vendors to prove out releases and flows, solve bugs, improve usability, etc.
* Performed 3D Modelling and Analysis using CAD tools
* Wrote script and macros for analysis tool for dynamic analysis
* Installation of different Unix System, CAD, Database required to perform
* Solution for existing machinery and new developed machine based on analysis and simulation.
* Creating 3D complex surface modelling and do various static, dynamic and fluid analysis.
* Supporting documentation needed for manufacturing engineering change request and clearly and frequently communicate with all functional areas.

**Environment**: : Python, CAD, UNIX, MySql, Pandas, Flask, OpenNLP, StanfordNLP, CSS, JavaScript, XML, Matlab

**Client: Achala IT Solutions, India Jun 2013 – Sep 2016**

**Role: Python Developer**

**Responsibilities:**

* Exposed to various phases of Software Development Life Cycle using Agile - Scrum Software development methodology.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Developed the customer complaints application using Django Framework, which includes **Python** code.
* Implemented web applications using Django framework following MVC architecture.
* Developed Restful API's using **Django** and SQLAlchemy data models as well as ensured code quality by writing unit tests using PyTest.
* Worked on JavaScript MVC Framework like Angular.js.
* Worked on Python Open stack API's.
* Used **Python** Library Beautiful Soup for web scrapping to extract data for building graphs.
* Created entire application using Python,Django,MySQL and Linux.
* Created Data tables utilizing PyQt to display patient and policy information and add, delete, update patient records.
* Involved in web designing using HTML 5, XHTML, CSS 3, JQuery, JavaScript extensively used Table less Design in CSS for positioning.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Used JQuery and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Created a Git repository and added the project to GitHub.
* Utilize PyUnit, the Python unit test framework, for all Python applications.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript.
* Worked in MySQL and NoSQL database on simple queries and writing Stored Procedures for normalization and renormalization.
* Responsible for debugging and troubleshooting of web application.

**Environment**: Python, Django, SQL Alchemy, PyTest, PyQt, Beautiful soup, Angular.js, XML Schema, Java Script, AJAX, JQuery, JSON, MySQL, Git, Apache, Linux and Windows.

**Certification**:

* GCP Associate

**Education:**

* Master’s in computer technologies – 2023
* Bachelor’s in Computer Science - 2013