SAI BHARGAV PINUMALLA

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**Professional Summary:**

* Over **6+ years** of experience in the development of applications/tools using **Python.**
* Developing Web Applications using **html, JavaScript**.
* Experience in Object Oriented Concepts with **C, JavaScript, and Python**.
* Involved in Design, Development, Testing, Automation, Enhancement and Maintenance of Applications and Tools.
* Wrapper developed in **Python** for instantiating multi-threaded application and running with other applications.
* Debugging the failure issues by capturing the array and register dumps using **Python scripts**, traces and performing several experiments by interacting with the design team.
* Applied **MVC architecture** in the development of the web applications with the help of **Django and Flask** framework.
* Involved in the development of the applications using **Python 3.3, HTML5, CSS3, AJAX, JSON and JQuery**.
* Good Experience in **C/C++**development of multi-threaded applications in a Linux Environment.
* Experience with developing software applications using **C, C++** and **Linux/Unix** environments.
* Expert in writing **Python modules** to extract/load asset data from the MySQL source database.
* Experienced with Elasticsearch, used by Rest API for querying written which is written by database server.
* Wrote and executed various MySQL database queries from **Python-MySQL** connector and MySQL database package.
* In depth knowledge of architecting and creating **Cassandra/no SQL** database systems.
* Having knowledge in **EC2, S3, VPC, Cloud Formation, CloudWatch, SNS, SWF, Dynamic DB.**
* Experience object oriented programming (OOP) concepts using Python, C++ and Java.
* Experience with Angular JS to create responsive web applications with reusable and readable code.
* Extensive experience using and creating REST APIs using **Django Rest Framework** and **Node.JS** with Express.
* Hands-on experience on Bootstrap to create user-friendly web pages with visual impact.
* Experience in track tasks, progress and bugs using workflow management tools like Jira and Rally.
* Experience with the AGILE software development process, as well as participating in scrum calls and developing in sprints.
* Extensive knowledge of building single page applications (SPA) using **HTML, CSS, JavaScript, Angular, Bootstrap,** with **Python development**
* Experience in developing Web-Applications implementing Model Template View architecture using Python and Django web application framework
* Strong experience setting up and working with operations inside Oracle SQL, **Microsoft SQL, PostgreSQL, mySQL and MongoDB.**
* Experienced in using Versioning tools like Git and GitHub to maintain current and historical versions of files such as source code, web pages, and documentation.
* Experience in gathering data from websites using python web scraping packages such as Beautiful Soup, Scrapy and Request.
* Experience in using **OpenCV and Google’s Tesseract OCR** to implement an image recognition feature to web or mobile applications.
* Experienced in Object Oriented Design, Programming concepts and unit testing using Pythons unittest library, Jasmine and Karma.
* Experience in deployment of web application using AWS Elastic Beanstalk.
* Understanding of machine learning libraries such as **SciKit-learn, TensorFlow, Numpy, Scipy and Pandas.**
* Involved in all phases of SDLC (Software Development Life Cycle) including Gathering Data, **UI Design, Analysis** of DEP's customer water usage, Development, and Deployment of the Application.
* Developed and consumed RESTful Web Services using **Django and Angular**
* Developed validations using Validation Form and Reactive Form from Angular 2 to achieve client side validation.
* Used Pipes from Angular 2 for filtering the data from server before displaying it in the UI.
* Visualized data using python libraries such as **matplotlib, numpy and pandas**
* Extracted data by consuming the Bulk Data Extract API with the Angular2 client side application.
* Managed the Web API using django models, views and admin interface.
* Designed and Developed SQL database structure with Django Framework using agile methodology
* Utilized JIRA to track bugs and interact with Quality Assurance.
* Django Rest Framework for the creation of data endpoints not available on DEP's API
* Tested API integrity to ensure proper functionality using Postman.

**Technical Experience:**

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| **Languages** | C, C++, JavaScript, Python. |
| **Markup/Scripting Languages** | Python, R, CSS, jQuery, JavaScript, XML, HTML |
| **Web Technologies** | HTML, CSS, jQuery, AngularJS, JavaScript, AJAX, JSON |
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| **RDBMS** | MS SQL, SQL,PL/SQL, MySQL,Oracle Database, MongoDB. |
| **Operating Systems** | UNIX, Linux, Windows 2003 Server, Windows NT/2000/XP. Windows 7,8,10. |
| **Frameworks** | Django, Flask |

**Education:**

* Master of Science, Computer Science, University of Bridgeport – Bridgeport,CT

**Professional Experience:**

**Leisure Pass Group, New York NY Oct 2017- Present**

**Python Developer Flask developer**

**Responsibilities:**

* Used Flask framework for application development.
* A login/logout application with SAML authentication/authorization protocol with the new OpenId/OAuth support.
* The TDS Login application includes several modules such as registration module, forgot password module, forgot username module etc., which is all available via <https://login.tds.net>
* The TDS login application is a python/Flask application which uses several libraries such as Flask 0.12, python marshmallow (Simplified object serilaization), Python LDAP3, Selenium (Functional/Acceptance testing), JQuery (For front end), Tox (For automation), Sphinx, Fabric (For auto deploy), Suds (For Python Soap Client) and many more.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript.
* Developed frontend and entire backend modules using Python on Flask Web Framework.
* Setup and used Couchbase as NoSql database for cache memory.
* Wrote python scripts to parse XML documents and load the data in database and Used Suds (Python library for SOAP) to parse the WSDL files (XML content) into python data types.
* Setup and Used selenium with Chrome, Mozilla and phantom web driver for functional testing and automated the testing process using TOX.
* Wrote unittest's, functional test's and integration test's for every module in the application.
* Worked in development of applications especially in UNIX environment and familiar with all of its commands.
* Experienced in Agile Methodologies and SCRUM Process.
* Resolved ongoing problems and accurately documented progress of a project.
* Using Subversion and GIT version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.

**Environment:** Python 2.7/3.5, Flask 0.12, Pandas, GIT, SVN, Java, JQuery, MySQL, Linux, Shell Scripting, HTML5/CSS, CentOS Linux, Couchbase server 4.0, python Ldap3,

**Anthem, Atlanta GA June 2016 to Sep 2017**

**Python Developer**

**Responsibilities:**

* Front end development using AngularJS along with Backend development using Python/Django.
* Developed Views and Templates with Django view controller and template language to create an easily accessible website interface for users.
* Experienced in Amazon EC2 setting up instances, virtual private cloud (VPCs), and security groups.
* Applied MVC architecture in the development of the web applications with the help of Django framework.
* Experienced in developing Python scripts to update the content in database and manipulate files.
* Created Indexed Views, complex Stored Procedures, effective functions, and appropriate Triggers to facilitate efficient data manipulation and data consistency.
* Knowledge in reviewing Python code for running the troubleshooting test-cases and bug issues.
* Applied server side Restful web services for external users to access our applications.
* Experienced python packages like cx\_oracle, pyodbc and MySQL dB for working with Oracle, SQL Server and MySQLdb.
* Used Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.
* Experience in handling database issues and connections with SQL and NoSQL databases like MongoDB (2.6, 2.4).
* Managed and administered all NoSQL database systems.
* Excellent experience with Python development under Linux OS (Ubuntu).

**Environment:** Python, Django,AngularJS, HTML5, CSS3, XML, jQuery, CSV,sqlite3, Oracle, SQL Server and MySQL db, MongoDB (2.6, 2.4), Excel, MS Office, NoSQL, Linux, Unix and Windows NT/2000/XP/2003 server, Ubuntu.

**Python Developer/ Django Developer June 2015 – Dec 2015 Golden Sun Technology India Pvt Ltd**

**Responsibilities:**

* Analysis for advanced Environmental technical start-ups and corporation with given resource and guides
* Responsible for creating well-designed UI screens with Django templates using HTML5, CSS3, JavaScript.
* Used Django framework in developing web applications to implement the model view control architecture (MVC)
* Refactored and extended large existing Django/Python code base, reducing the number of lines in code and duplication significantly.
* Wrote Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database.
* Query Optimization through MYSQL server tools for quick response time.
* Designed and Developed DB2 SQL Procedures and UNIX Shell Scripts for Data Import/Export and Conversions.
* Wrote Python scripts to parse JSON documents and load the data in database and also used python scripts to update content in the database and manipulate files
* Responsible to set up REST API frame work using Django, Flask.
* Developed, designed, managed dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL API calls.
* Performed some operations, visualization on Oracle DB using libraries like Ox oracle, Matplotlib, Pandas.
* Build back-end application with Python / Django, Worked on Dockers, RabbitMQ, Celery, and Jenkins.
* Used JavaScript for client side validation using Regular Expressions.
* Created entire application using Python, Django Framework and MySQL Database
* Used Python and Django to interface with the JavaScript UI and manage the storage and deletion of content.
* Developed a RESTful web services using Python and Django to retrieve and save data
* Used interaction and data presentation pages developed with HTML, CSS and JavaScrip
* Developed and tested features for UI dashboard using Python, HTML, Bootstrap and JavaScript
* Managed relational database applications with UI designing services and Django Framework
* Worked with various team members for necessary performance upgrades to client and server software
* Worked with other developers and project team during design and development phase to ensure built for testability.
* Worked on JIRA tools for issue tracking, reporting versions, epics, sprints etc.
* Used GitHub version control system to collaborate with team members.
* Worked on Deployment of web application using AWS server

**Environment:** Django REST Framework (DRF), MongoDB, HTML5, CSS3, Bootstrap, Atom, Postman, Python Unittest, Excel VBA, Pycharm, Django, Angular2, Express, Git, Postman

**Python Developer Jan 2014 – April 2015 Precision IT Solutions Pvt. Ltd**

**Responsibilities:**

* Worked on Deployment of web application using AWS server
* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* 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.
* Responsible for setting up Python REST API framework using Django.
* Developed views and templates with Python and Django view controller and templating language to create a user-friendly website interface.
* Developed web applications in Django Framework model view control (MVC) architecture.
* Used Python to write data into JSON files for testing Django Websites. Created scripts for data modelling and data import and export.
* 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.
* Thorough knowledge in various front end tools like HTML, CSS, JavaScript, XML, JQuery, Angularjs, and AJAX. Managed large datasets using Panda data frames and MySQL.
* Used object-relational mapper (ORM) to automate the transfer of data stored in relational databases tables into objects.
* Used Python based GUI components for the front-end functionality such as selection criteria.
* Created test harness to enable comprehensive testing utilizing Python.
* 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
* Created Data tables utilizing PyQt to display customer and policy information and add, delete, update customer records.
* Used PyQuery for selecting DOM elements when parsing HTML.
* Created Business Logic using Python to create Planning and Tracking functions.
* Created UI Screens for initiation and validation.
* Worked on UI using HTML5, CSS3 and JavaScript's.
* Developed multi-threaded standalone app in Python and PHP to view performance
* Performed data extraction and manipulation over large relational datasets using SQL, Python, and other analytical tools.

**Python Developer March 2012 – Dec 2013 OD Interface, Hyderabad**

**Responsibilities:**

* Worked on Deployment of web application using AWS server
* Application architecture designed as per the requirements using spring framework.
* Requirement Analysis and Estimation of project timelines.
* Developed Python batch processors to consume and produce various feeds.
* Generated PDF daily and Monthly statements using Aspose PDF Kit.
* Developed internal auxiliary web apps using Python Flask framework with CSS / HTML framework.
* Implemented Test Driven Development (TDD) strategy for the project.
* Involved in development using C++, bug fixing and unit testing of the Layout commands.
* Undergone training on C/ C++ / Linux.
* Worked on Socket communication layers and multithreading on Linux.
* Created database access layer using JDBC and PL/SQL stored procedures.
* Coordinate with SMEs, other architects, and senior technical staff to identify client's needs, document assumptions, and build-out new requirements and move code through user acceptance testing.