**Sarat**

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**Professional Summary:**

* Around **7** years of experience in developing and designing Web Based, Multi-tier distributed applications using latest analytical programming **Python, Django, Flash, JAVA, J2EE** and spring technologies.
* Good involvement in creating web applications in **Object Oriented Programming** and also executing **Model View Control** design utilizing **Django** Framework.
* Experienced in Python's modules **Numpy, matPlotLib, Pickle, PySide, Scipy, wxPython, PyTables etc**. for generating complex graphical data, creation of histograms etc.
* Knowledge of deployment tools using **Heroku, Jenkins, pylint, cpp** Check and Coverity.
* Worked on **AJAX** framework to transform Datasets and Data tables into **HTTP Serializable JSON strings.**
* Experience in using Design Patterns such as **MVC, Singleton** and frameworks such as **Django, WSGI**.
* Experience in developing **Web Services (SOAP, Restful)** in **Python** using **XML, JSON.**
* Created Business Logic using **Python** to create Planning and Tracking functions.
* Hands on experience with **cloud Micro services.**
* Proficient in building Web User Interface (UI).
* Proficient in using editor’s like **Eclipse, sublime text**, **NetBeans, PyCharm, Pyscripter, spyder, PyStudio** and **PyDev.**
* Used **Django** evolution and manual **SQL** modifications to retain all the data, while site is in production.
* Experience in **Linux Bash Scripting** and **PEP** guidelines in **python.**
* Used Python Unit test framework for developing and implementing the unit tests using Test driven approach.
* Successfully **migrated the Django** database from **SQLite** to **MySQL** to **PostgreSQL** with complete data integrity.
* Hands on experience with databases using **ORMs/DOMs** for integrating with **Oracle, MySQL, PostgreSQL.**
* Providing support for **Linux servers** and workstation in Department of Physics.
* Experience in working with **GUI frameworks** with packages like **PyJamas, Jytho, guidata, PyGUI, PyQt**.
* Good knowledge in working with Web/application server- **Apache Tomcat (6.0, 7.0, 8.0), Tornado, Cherrypy, Chaussette, Rocket**
* Experience in infrastructure as service **(IaaS), Platform as service (PaaS), Software as a service (SaaS) & end user computing.**
* Experienced in **NoSQL technologies like MongoDB, Cassandra** and relational databases like Oracle, SQLite, **PostgreSQL, Dynamo DB and MySQL** databases.
* Good experience in handling errors/exceptions and debugging the issues in large scale applications.
* Experienced in Application Development using **Python, RDBMS** and Linux shell scripting and performance tuning
* Participated in several **Data Backup**, **Data Recovery**, and **Disaster handling drills**
* Good knowledge in strategy and implementation of **AWS technologies** such as **EC2**, **S3**, and **EBS**.
* Performed code reviews and implemented best **Pythonic** programming practices Experience in project deployment using **Google Cloud/Jenkins, ElasticSearch** and using web Services like Amazon Web Services (**AWS**).
* Experience in working with various version control systems like **GIT, CVS** and **SVN.**
* Interacting with supervisors, artists, system administrators and production to ensure production deadlines are met.

**Technical Skills:**

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| **Languages** | Python 2.7, 3.0, 3.4, C/C++, Shell Script, SAS. |
| **Python Libraries** | ReportLab, Numpy, Scipy, Matplotlib, HTTPLib2, Urllib2, Beautiful Soup, Pickle, Pandas, PyIMSL, PyTables |
| **Framework** | Django, Flask, Pyramid, PyJamas, Jython, Angular JS, Spring, Hibernate |
| **Development tools** | Eclipse, Pycharm, NetBeans and Sublime Text. |
| **Databases** | MySQL, SQL Server, Oracle, SAS DBMS. |
| **Protocols** | TCP/IP, HTTP/HTTPS, SOAP, SNMP, SMTP, REST |
| **Web Technologies** | HTML5, CSS3, Javascript, JQuery, JSP, Bootstrap. |
| **Deployment tools** | Heroku, Amazon EC2, Jenkins and Fabric |
| **Web Servers** | Apache HTTP webserver, WebLogic, WebSphere, JBoss and Apache Tomcat |
| **Operating systems** | Windows, Linux, MAC OSX. |
| **Web Services** | Amazon S3, AWS. |
| **Version Control** | GIT, CVS, SVN. |

**Professional Experience:**

**Moody’s Analytics – San Francisco, CA September 2018 – Till Date**

**Role: Python developer**

**Responsibilities:**

* Developed the application by following **Agile methodology and Scrum** method of project management.
* Developed web applications in **Django Framework's model view control (MVC)** architecture
* Developed a fully automated continuous integration system using **GIT, Gerrit, Jenkins, MYSQL** and custom tools developed in **Python and Bash**
* Developed Views and Templates with **Python and using Django's** view controller and template language, Website interface is created.
* Implemented Business logic, worked on data exchange, processed **XML** and **HTML** using **Python 2.7** and its familiar framework Django.
* Design and implement **Provisioning Server 5.6 upgrade** to Provisioning Server 6.1.
* Created **AngularJS controllers, directives, models** for different modules of the application.
* Developed a fully automated continuous integration system using Git, Gerrit, Jenkins, MySQL and custom tools developed in Python and Bash
* Involved in converting Hive/SQL queries into Spark transformations using Spark RDDs, Python.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL, and VMWare API calls.
* Designed and Developed User Interface using **HTML, CSS, JavaScript, jQuery, AngularJS, Bootstrap and JSON.**
* Developed Django dashboard with custom look by using the study of Django admin site and dashboard.
* Automated data movements using Python scripts.
* Worked on **Selenium** testing framework.
* Written **Shell Scripting** for automation.
* Used **Pandas API** to put the data as time series and tabular format for data manipulation and retrieval.
* For manipulation of data from the database, various queries using SQL were written and created a database using **MySQL.**
* Deployed the project into Jenkins using GIT version control system.
* Involved in splitting, validating and processing of files.
* Created and populated digital brochures using **PageTurnPro** and built photo galleries on website in the **Django CMS** and also using **Django CMS plugin.**
* Responsible for debugging and troubleshooting the web application.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Developed code in Java which creates mapping in ElasticSearch even before data is indexed into.
* Responsible for user validations on client side as well as server side.
* Interacted with QA to develop test plans from high-level design documentation

**Environment:** Python 2.7, Django, Django-CMS, SSO, Django-CMS plugins, MySQL, Linux, Shell Scripting, Pandas API, Selenium, HTML, CSS, JavaScript, jQuery, AngularJS, Bootstrap, JSON**.**

**Vanguard -Malvern, PA October 2017 – August 2018**

**Role: Python Developer**

**Responsibilities:**

* Taken part in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Designed the front end of the application using **Python, HTML, CSS, AJAX, JSON** and jQuery.
* Used the **Django Framework** to develop the application.
* Developed views and templates with **Python and Django's** view controller and template language to create a user-friendly website interface.
* Involved in implementing the complete Application in the in-build **Spring MVC Architecture** with Angular JS.
* Used **JavaScript and JSON** to update a portion of a webpage.
* Used Selenium Library to write fully functioning test automation process that allowed the simulation of submitting different requests from multiple browsers to web application.
* Rewrote existing **Python/Django modules** to deliver certain format of data.
* Responsible for debugging the project monitored on JIRA (Agile).
* Wrote Python scripts to parse **JSON** documents and load the data in database.
* Used Python and **Django** to interface with the jQuery UI and manage the storage and deletion of content.
* Wrote and executed various **RDBMS, MYSQL** database queries from Python using Python-MySQL connector and **MySQL dB package**.
* Designed and Implemented **Server Build Automation & Server** Decommissioning Automation
* Implemented **Apache Spark** data processing project to handle data from RDBMS and streaming sources.
* Implemented web applications in **Flask frame** works following MVC architecture.
* Worked on front end frame works like **CSS Bootstrap** for development of Web applications.
* Created **XML with Django** to be used by the Flash
* Involved in deployment of project using **AWS.**
* Special skills in developing user friendly, simple yet effective web-based applications.
* Worked on **MySQL database** on simple queries and writing Stored Procedures for normalization and DE normalization.
* Worked within **SOA based enterprise framework** to build web services.
* Used many regular expressions to match the pattern with the existing one.
* Built SQL queries for performing various CRUD operations like create, update, read and delete.
* Performed **Unit testing, Integration Testing**, web application and automation testing.
* Developed indexer programs and search endpoint for enterprise applications, maintenance of **ElasticSearch  
  cluster, and deployment of programs done through custom automated scrips.**
* Documented the requirements including the available code which should be implemented using Spark, Hive, **HDFS, HBase and ElasticSearch.**
* Worked in development of applications especially in **UNIX** environment and familiar with all its commands.
* Used Test driven approach for developing the application and Implemented the unit tests using **Python Unit** test framework.

**Environment**: Python 2.7 & 3.5, Django 1.6.1, Selenium, HTML-5, CSS-3, XML, MySQL, JIRA, JavaScript, Angular JS, Backbone JS, jQuery, RDBMS, CSS Bootstrap, ElasticSearch, Mongo DB-3.2, MS SQL Server-2014, T- SQL, Eclipse, Git, GitHub, AWS, Amazon Lambda, Linux, Shell Scripting

**Chase Bank – Los Angeles, CA November 2016 – September 2017**

**Role: Python Developer**

**Responsibilities:**

* Developed strategic partnerships with the business unit to develop a solid knowledge base of the business line, including the business plan, products and processes.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML, CSS, JavaScript and JQuery**.
* Created APIs and developed entire frontend and backend modules using Python on Django Web Framework.
* Used python scripts to update content in the database and manipulate files.
* Involved in design, implementation and modifying the python code and MySQL database schema on the back end.
* Installed and Configured **Linux** with **Apache, Oracle and PHP.**
* Developed widgets for GUI using modules of Python.
* Used Python OS module on **UNIX** environment, made job cloning and forking.
* Parsers written in Python for extracting useful data from the design data base.
* Managing of internet security and acceleration throughout the network using Microsoft's ISA server.
* Used third party **JQuery** based plug-ins like JQuery UI, Data tables etc. Heavily used **JavaScript** for Form Submit and other UI elements during development.
* Used **JMS API** for asynchronous communication by putting the messages in the Message queue.
* Fetched twitter feeds for certain important keyword using python twitter library.
* Created the domains, application servers and load balancers using **Weblogic 9.0.**
* Designed extensive additions to existing Python Web Application utilizing Service Oriented Architecture (SOA) techniques.
* Responsible for debugging and troubleshooting the web application.
* Implementation under **Red Hat, Ubuntu, and Windows 7**, both locally and on **Cisco Cloud**.
* Profiled Python code for optimization and memory management.
* Participated in day-to-day meeting, status meeting, strong reporting and effective communication with project manager and developers.

**Environment:** Python, Django, HTML, CSS, JavaScript, JQuery, Ubuntu, PHP, Apache, Oracle, MySQL, Linux, UNIX, Cisco Cloud.

**Brio Technologies - India June 2012 – July 2016**

**Role: Software Engineer**

**Responsibilities:**

* Participated with team on implementing new features and UX in an agile environment.
* Designed business applications using web technologies like **HTML, XHTML,** and **CSS** based on the W3C standards.
* Used Functionalities which includes writing code in **HTML, CSS, JavaScript, JQuery** and **JSP** making use of **Bootstrap** framework.
* Used AngularJS framework for building web-apps and is highly efficient in integrating with Restful services
* Worked on Bootstrap CSS framework for Responsive Web Design.
* Developed Object Oriented JavaScript code and responsible for client side validations using JQuery functions.
* Used CSS Sprites to decrease the number of HTTP requests and load time of web pages.
* Developed components to fetch the data from the back end using **AJAX and JQuery**.
* Worked through cross browser compatibility issues with layout and styles for all new CSS that was implemented.
* Implemented data-binding and MVC using **AngularJS** for front-end development of a current web application
* Refined and iterated user experience by designing and implementing new modules and interfaces in a complex, responsive site.
* Involved in up gradation and maintenance of Life Insurance Corporation website to the new layout using the Grid orientation model **Bootstrap** framework.
* Involved in Agile/SCRUM based approach to UI Development.
* Involved in raising the change requests and entering all the production issues into the remedy system.

**Environment:** NetBeans, Xml, HTML, XHTMLCSS, JavaScript, JQuery, AJAX, AngularJS, Bootstrap, Linux.

**EDUCATION/CERTIFICATION:**

* Master of Science in Electrical Engineering from San Jose State University – CA.
* Bachelors in Engineering and Technology – India.