**Surya Madugula**

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**Summary:**

• 5 years of experience as Python developer with proven expertise in using new tools and technical developments to drive improvements throughout entire **Software Development Lifecycle**.  
• Proficient in Front end development experience using **Python 3, Django 1.7/1.8, HTML, XML, CSS, JavaScript, Bootstrap, jQuery, JSON and, AngularJS and Node.js**.  
• Experience in Analysis, Design, Development, Testing, Customization, Bug fixes, Enhancement, Support and Implementation of various stand-alone, client-server enterprise applications.

• Hands on experience working with quant/data Python libraries (**pandas/NumPy)**  
• Build back-end application with **Python/ Django, Worked on Dockers and Jenkins**.  
• Proficient in developing Web Services, RESTful in Python using **XML, JSON**.  
• Expertise with cloud platforms like Amazon **AWS**, **S3, EC2**  
• Experience in Integrating multiple applications through **REST API**• Experienced in working with various Python Integrated Development Environments like Net Beans, **PyCharm, PyScripter, Spyder, PyStudio, PyDev and Sublime Text**.  
• Experience in developing web applications by following **Model View Control (MVC)** Architecture using server-side applications **Django, Flask, WebPy, BottlePy, NumPy and Pyramid**.  
• Proficient in SQL databases **MS SQL, MySQL, Oracle, and MongoDB**.  
• Extensive experience in using Microsoft BI Studio products for implementation of **ETL** methodology in data extraction, transformation and loading.  
• Good at writing **SQL Queries, Stored procedures**, functions, packages, tables, views, triggers.

• Successfully migrated the Django databases from **MySQL** to **PostgreSQL** with complete data Integrity

• Experience with version control like **GIT** and **Bitbucket**  
• Having experienced in **Agile Methodologies, Scrum stories and sprints experience**

• Experinece with **Jira** for Issue & project tracking and **confluence** and working in fast paced environment

• Experienced in various types of testing such as **Unit testing, Integration testing, User acceptance testing, Functional testing.**

• Excellent communication and interpersonal skills and analytical skills and highly motivated team player with the ability to work independently.

**Technical Skills:**

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| Programming languages | Python, Java, C, C++ |
| Databases | MySQL, MS SQL, PostgreSQL, Mongo DB |
| Deployment Tools | Amazon EC2, S3, Jenkins, Dockers |
| Web Technologies | HTML5, CSS3, JavaScript, jQuery, AJAX |
| Web frameworks | Django, Flask, Angular JS, Node JS |
| Operating Systems | Linux, Mac, Windows |
| Methodologies | Agile Methodologies |
| IDE | PyCharm, Jupyter Notebook, Atom |

**Work Experience**:

**L Brands, Columbus OH January 2018 – April 2019**

**Python Developer**

**Responsibilities:**

• Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.

• Integrated two payroll systems through REST API calls and worked on Data correction on records and maintained the application as per changing employee information

• Worked on Item Portals and improved the functionality and reliability in accordance with user requirement   
• Used Python and Django creating graphics, XML processing, data exchange and business logic implementation.  
• Utilized Python Libraries like Boto3 for AWS.  
• Managed Container using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.  
• Generated graphical reports using Python package NumPy and used advanced features like pickle/unpickle in Python for sharing the information across the applications to deploy into AWS with tools/platforms such as JIRA, Jenkins, Docker, and Elastic search..  
• Used JSON based REST web services and Amazon web services (AWS) for smooth operation of application.  
• Wrote Python scripts to parse JSON documents and load the data in database.  
• Built complete Configuration Management for the Microservices using Kubernetes, Docker and Ansible.  
• Designed front end using HTML, AngularJS, CSS, and JavaScript.  
• Implemented SOAP/RESTful web services in JSON format.  
• Used PyQT to implement GUI for the user to create, modify and view reports based on client data.  
• Worked on Jenkins continuous integration tool for deployment of project.  
• Created RESTful API's calls with server, parse output report of excel files.  
• Designed and managed API system deployment using fast http server and Amazon AWS architecture.  
• Generated Python Django forms to record data of online users and used Pytest for writing test cases.  
• Deployed the project into Jenkins using GIT version control system.  
• Troubleshooting issues by identifying the root cause and finding solutions for the issue.  
• Optimized SQL queries used in batch processing and Wrote validation scripts in SQL to validate data loading.

**Environment:** Pytho**n**, Django 1.4, Ruby, HTML5, CSS, XML, MySQL, JavaScript, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting, JIRA, Jenkins, Docker, AngularJS.

**Alfred Talkie, Baytown TX April 2016 – December 2017**

**Python Developer**

**Responsibilities:**

• Developed web applications in Python Django with client-specific customizations.  
• Created Data tables utilizing PySpark, PyQT to display customer and policy information and add, delete, update customer records.  
• Used several Python libraries like Python, NumPy and matplotlib and was involved in environment, code installation as well as the SVN implementation.  
• Designed and developed the UI for the website with HTML, XHTML, CSS, Java Script and AJAX.  
• Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL  
• Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.  
• Worked on Python OpenStack APIs and used NumPy for Numerical analysis.  
• Successfully migrated the Django database from SQLite to PostgreSQL with complete data integrity.  
• Wrote scripts in Python for extracting data from HTML file.  
• Worked on installation of Docker using Docker toolbox.  
• Created RESTful API's calls with server, parse output report of excel files.  
• Worked on creation of custom Docker container images, tagging and pushing the images.  
• Used Jenkins to build and troubleshoot automated testing and for continuous integration and deployment.  
• Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format. Responsible for the project monitored on JIRA (Agile).  
• Used GIT for the version control and deployed project into AWS.  
• Create, develop and fine-tuned SQL objects: Tables, stored procedures, views and triggers.  
• Used UML Rational Rose to develop Use-case, Class and Object diagrams for OOA/OOD techniques.  
• Used Amazon Elastic Beanstalk with Amazon EC2 to deploy project into AWS.  
• Installed and maintained web servers Tomcat and Apache HTTP in UNIX.  
• Responsible for designing, developing, testing, deploying and maintaining the web application.  
• Responsible for managing large databases using Pandas data frames and MySQL.  
• Wrote and executed various MySQL database queries from Python-MySQL connector and MySQL dB package.  
• Designed RESTful XML web service for handling AJAX request

**Environment:**

**Python, Django 1.4, PySpark, AJAX, API, Docker, Agile, MySQL, Git, SVN, AWS.**

**MNR DataMight Pvt. Ltd. Hyderabad, India July 2014 - May 2015**

**Jr. Python Developer**

**Responsibilities:**

• Used Python Django framework to develop applications.  
• Implemented SQL Alchemy which is a Python library for complete access over SQL.  
• Used HTML, CSS, JavaScript and jQuery and Implemented AJAX for dynamic functionality of a webpages for front end applications.  
• Generated automated documentation for the Python scripts using sphinx. Designed and developed continuous integration using Python, Flask, GitHub.  
• Used AngularJS as the development framework to build a single-page application.  
• Developed a fully automated continuous integration system using Git, Gerrit, Jenkins, MySQL and custom tools developed in Python and Bash  
• Involved in entire lifecycle of the project including Design, Development, and Deployment, Testing and implementation and support.  
• Managed large datasets using Pandas data frames and MySQL.  
• Deployed project into Amazon web services (AWS) using amazon elastic bean stalk.  
• Developed entire frontend and backend modules using Python on Django including Tastypie Web Framework using Git.  
• Developed and executed various MySQL database queries from Python using Python-MySQL connector and MySQL database package.  
• Develop applications that use MongoDB database, and PyMongo.  
• Designed object model, data model, tables, constraints, necessary stored procedures, functions, triggers, and packages for Oracle Database.  
• Used AJAX and jQuery for transmitting JSON data objects between frontend and controllers.  
• Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.  
• Implemented monitoring and established best practices around using elastic search.  
• Wrote Python scripts to parse XML and JSON documents and load the data in database.

**Environment:**

**Python, Flask, MongoDB, JSON, jQuery, Elastic search, XML, PyMongo, AWS bean stalk, Bash, AngularJS.**

**Education:**

MS in Information Technology, Valparaiso University, 2016

BS In Computer Science, Jawaharlal Nehru Technological University, 2014