**Sonu Konduru**

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**SUMMARY:**

* Extensive experience in all phases of SDLC including design, development, testing, Enhancement, Support and Implementation of various web, stand-alone, client-server enterprise applications using Python, Django in various domains.
* Experience in developing web-based applications using Python, Django, Flask, Angular.js, C++, XML, CSS, HTML, DHTML, JavaScript JQuery, Bootstrap, JSON, AngularJS, BackboneJS, D3JS, Cordova, Grunt, GIT, AJAX, SVN and DOM.
* Proficient in using editors Eclipse, PyCharm, PyScripter, Notepad++ and Sublime Text while developing different applications.
* Skilled in Python with using new tools and technical developments (libraries used: libraries- Beautiful Soup, Jasy, numpy, Scipy, matplotlib, Jupyter, Pickle, PySide, Pandas dataframe, networkx, urllib2, Pychart, Highcharts) to drive improvements throughout entire SDLC.
* Handy Experience in developing web applications implementing Model View Control architecture using Django, Flask, and spring web application frameworks.
* Expertise in developing the presentation layer components using JSPs, JavaScript, Node.js, XML, CSS and HTML.
* Extensive experience with data modeling along with Oracle MS SQL Server, MySQL & PostgreSQL. writing PL/SQL, trigger, query optimization and in NO-SQL databases MongoDB, Cassandra.
* Knowledge in working with continuous deployment using Heroku and Jenkins.
* Experience in implementing with server side technologies with restful API and MVC design patterns with node JS and Django framework.
* Experience handling API policies like converting from XML to JSON, JSON to XML, Oauth, Quota, Spike Arrest.
* Experience in database programming using RDBMS like ORACLE and SQL R2/2012 and maintaining the database, including requirement analysis, design, data conversion, loading, testing and implementation.
* Hands-on experience in Unix and Linux Kernels (file validations, file downloads, workflow executions).
* Good experience in working with Amazon Web Services like EC2, Virtual private clouds (VPCs), Storage models (EBS, S3, instance storage), Elastic Load Balancers (ELBs).
* Hands on Experience on Docker Hub, Docker Engine, Hub machine, Compose and Docker Registry, in creating Docker Images and handling multiple images primarily for middleware installations and domain configuration.
* Experience on complete software development life cycle (SDLC) with software development models like JIRA, Agile Scrum Model, Prototype model & RUP, Waterfall model.

**SKILL SET:**

**Cloud & SaaS Experience -**

Cloud Computing Platforms: Configuration Management:

Amazon Web Services (AWS), Cloud Foundry, Puppet, Chef, AWS CloudFormation,AWS CloudFront

Linux Versions: Hypervisors: Ubuntu, Red Hat, CentOS VM Ware, KVM, Hyper-V

PaaS: Cloud Foundry, AWS Beanstalk .

**Development Stack Experience -**

Frameworks: Django, TurboGears, web2py, Openstack

Databases: MongoDB, MySQL, SQL Server. PostgreSQL, Oracle

JavaScript Frameworks: Node.js, jQuery, React.js, Bootstrap, Ember.js, AngularJS

Hosting: AWS, Rackspace, Linux (Red Hat, Ubuntu, CentOS)

API Integration: JSON, REST, XML, SOAP

Source Control: Github, Bitbucket, CVS, Eclipse, SVN

Deployment: Jenkins

**Experience**

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| **SR. Python Developer** |
| **University of Pennsylvania - Philadelphia, PA Oct 2016 – Present** |

**Description:** This project is mainly involved in developing a web application using Python 3.5 version and Django framework for the back end and AngularJS in frontend. Connected the application to AWS using amazon beanstalk using Django framework to run the application on a custom memcached server. Implemented serverless architecture using AWS lambda function for quick integration with cloud. Maintain and generate automated views, serializers and URLs via db inspection. Four apps were migrated successfully on cloud and automated project builds. These multiple apps on cloud allowed data visualization, quick responsive UI.

**Responsibilities:**

* This application is developed using Python, Javascript, AngularJS for frontend, RESTful web services, Python, MongoDB for Backend and deployed in AWS. Also developed a single page application by using AngularJS and ReactJS.
* Implemented MVC architecture in developing the web application with the help of Django framework.
* For developing the the front-end used HTML5, CSS3, AngularJS ReactJS, jQuery and Bootstrap to build a single page web app that communicate with back-end via RESTful API.
* Used CSS media queries and bootstrap to support for Responsive development.
* Created and maintained the framework and layout of each portal with Cascading Style Sheets (CSS).
* Implemented performance oriented CSS selector, scalable and modular CSS approach for front-end architecture.
* Developed various generic JavaScript functions used for validations.
* Built various graphs for business decision-making using Python matplotlib library.
* Used D3.js to attach data to DOM (Document Object Model) elements. Then used CSS3, HTML, and SVG showcase this data.
* Developing Web pages by leveraging Javascript, AngularJS and ReactJs and used D3.js charts.
* Written Angular services driven JSON consuming JavaScript functions to save User selections such as radio button, drop-down menu selections into a cookie.
* Leveraged ReactJS resources for all data access, encapsulating URLs and standardizing data access interfaces, maintaining Parent and child elements by using State and Props In ReactJS.
* Skilled in leading frameworks as ReactJS to build high-quality, scalable and reusable components and Front-end solution.
* Responsible for implementing UI mockups, integrating third party react libraries, and handling/creating Redux store data.
* The back-end use NodeJS, Express, MongoDB and mongoose to provide RESTful API.
* Works with Gulp, Node Package Management, MongoDB. Used ReactJS library functions for the logical implementation part at client side for all the application.
* Created ReactJS for reusable components (multi-field form elements, background file uploads) and implemented ReactJS Controllers to maintain each view data.
* Used different methods, Attributes in D3.js to bind Data to SVG elements and create tables and other HTML elements.
* Used python libraries like Beautiful Soup and matplotlib and Built efficient NodeJS backend for client web application.
* Fetched twitter feeds for certain important keyword using python-twitter library.  
  Used Python library Beautiful Soup for webscrapping and Pandas Library for statistical analysis.
* Designed the functionality to read the data from MySQL and clean the data and arrange the data into timeframes using Pandas.
* Used Numpy along with Pandas for computing min, max and mean statistical data.
* Developed server based web traffic statistical analysis tool using Django, Pandas.
* Implemented business logic, data exchange, XML processing and created graphics using Python and Django.
* Used Python and Django to API's to access database objects with the jQuery UI and manage the storage and deletion of content.
* Developed restful Web-services using Django Rest framework in Python to support JSON and XML.
* Implemented RESTful Web Services for the data transportation between multiple systems.
* Design and documentation of RESTful APIs for collection and retrieval of high volume IOT telemetry data.
* Developed remote integration with third party platforms by using RESTful web services.
* Wrote Python code embedded with JSON and XML to produce HTTP GET request, parsing HTML data from websites.
* Wrote Python code to simplify lists in Python with list comprehension and Python OOP.
* Worked with POSTMAN for API testing. Developed REST APIs, and created User Model for application.
* Implemented REST API's in Python using micro-framework like Flask with SQLAlchemy.
* Implemented OAuth2.0 for authentication based web application and accessed APIs for fetching data services
* Developed various algorithms for generating several data patterns and Worked on Node.JS for developing server side web applications and Used JIRA for bug tracking and issue tracking.
* Designed Cloud Infrastructure as a Service environment using open source technology OpenStack to enable portability of cloud services across hybrid cloud environments.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Implemented code to perform CRUD operations on MongoDB using PyMongo module.
* Implemented responsive vector maps and charts on webpages using the data from MongoDB.
* Implemented automate scripts to back up the old records using MongoDB export command and transfer these backup files into backup machine using ftplib.
* Maintaining multiple copies of data in different database servers using MongoDB Replication concept.
* Successfully migrated the Django database from SQLite to MongoDB with complete data integrity.
* Wrote Python scripts to parse JSON documents and load the data in database.
* Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications. Worked with multiple development teams to troubleshot and resolve issues.
* Designed, configured and deployed Amazon Web Services (AWS) for a multitude of applications utilizing the Amazon Web Services focusing on high-availability, fault tolerance and auto-scaling.
* Creating S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and backup on AWS.
* Configured AWS RDS Aurora database users to allow each individual user privileges to perform their related tasks.
* Developed scripts for build, deployment, maintenance and related tasks using Jenkins, Docker in AWS.
* Used bean\_docker for easy creation of additional docker containers on Elastic Beanstalk instances for testing and diagnostics.
* Converted our staging and Production environment from a handful AMI's to a single bare metal host running Docker.
* Created an automation unit and regression testing suites for the Rest API and batch jobs using Junit and TestNG.

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| **Python developer** |
| **Cerner - North Kansas City, MO March 14 - July 16** |

**Description:** Cerner Corporation is an American supplier of health information technology (HIT) solutions, services, devices and hardware. The project's main aim is to design leading-edge health information technology, and offer strategies that empower organizations to know, manage and engage their populations. We developed an application to store the details of the customers' accounts and health insurance policies. **Responsibilities:**

* Developed Views and Templates with Python and using Django's view controller and template language for the Web application.
* Designed and Developed User Interface using front-end technologies like HTML, CSS, JavaScript, JQuery, AngularJS, Bootstrap and JSON.
* Developed custom directives (elements, Attributes and classes) using Javascript and AngularJS.
* Used AngularJS Directives like ng-app, ng-model, ng-repeat, ng-show, ng-hide, ng-controller, ng-route etc.
* Wrote AngularJS services driven JSON consuming JavaScript functions to save User selections such as radio button, drop-down menu selections into a cookie.
* Leveraging AngularJS resources for all data access, encapsulating URLs and standardizing data access interfaces. Maintained the Parent and child elements by using State and Props in AngularJS.
* Implemented email and SSO integration using NodeJS for backend and AngularJS in frontend.
* Developed single page applications using AngularJS, Implemented two way data binding using AngularJS.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Built various graphs for business decision making using Python matplotlib library and Beautiful Soup Library for web scrapping to extract data for building graphs.
* Used Pandas API to put the data as time series and tabular format for easy timestamp data manipulation and retrieval.
* Developed a web application for developers to generate their own REST API calls in JAVA and Python.
* Worked with WEB API's to make calls to the web services using URLs, which would perform GET, PUT, POST and DELETE operations on the server.
* Created stored procedure, trigger on the database to provide/insert specific data from multiple tables for Web API services.
* Wrote code to support model-view-controller (MVC) pattern of Python Django framework in developing several modules for the application.
* Developed Merge jobs in Python to extract and load data into MySQL database.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Created database tables and implemented SQL Stored Procedures, triggers, and complex queries in MYSQL.
* Wrote and executed various MYSQL database queries from python using Python-MySQL connector and MySQL db package.
* Wrote Python modules to extract/load asset data from the MySQL source database.
* Parsing various format of files like XML, JSON format files and load into MySQL database with Python XML.
* Developed Application to access JSON and XML from Restful Web Service from consumer side using JavaScript.
* Wrote SOAP and Restful web services, in house ESB for a web Claims applications (Spring MVC, Angular JS, Active, SOAP UI, Mocking, JSON, Build forge).
* Developed remote integration with third party platforms by using RESTful web services.
* Used Restful APIs to access data from different suppliers.
* Designed REST APIs that allow sophisticated, effective and low cost application integration.
* Implemented RESTful Web-Services For sending and receiving the data between multiple systems.
* Involved in development of Web Services using REST for sending and getting data from the external interface in the JSON format.
* Placed data into JSON files using Python to test Django websites and generated Scripts that test and return REST API calls
* Set up Unix server to support a TCP/IP local net of windows XP clients and an Unix server in an office environment.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.
* Implemented AWS solutions using E2C, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups.
* Implemented AWS client API to interact with different services as Console configuration for AWS EC2.
* Utilized Docker on EC2 for a larger amount of computation, and to gain better scalability.
* Executing regression tests on each release and verified bugs found from automation test in Bugzilla.
* Built development environment with JIRA, Git.
* Used Selenium Library to write fully functioning test automation process that allowed the simulation of submitting different we requests from multiple browser to web application.

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| **Python Developer** |
| **Goldman Sachs NYC, NY Feb 2013 to Jun 2014** |

**Description:** Project was to Update their enterprise application which mainly deals with issuing the insurance policies. This was built using Spring Framework including core java and J2EE concepts. This acts an interface for a customer, where he can enter the details about the property/person and can find the calculated premium. The application utilised REST Web services interface for the Backend host native applications. Earlier Backend host application functionality was only accessible using local user interface. We have built the middleware layer of web services so that Native application functionalities can be accessed by different channels like web Portal, IVR etc. using industry standard REST Protocol.

**Responsibilities:**

* Developed UI screens using HTML, CSS, AJAX, JavaScript, and jQueryand developed data insertion forms and validated them using JavaScript, AngularJS.
* Maintained Cross Browser compatibility and designed dynamic client-side JavaScript, codes to build web forms and simulate process for web application, page navigation and form validation.
* Automated data movements using python scripts. Involved in splitting, validating and processing of files.
* Used several python libraries like wxPython, numPY, Jython and matPlotLib.
* Build all database mapping classes using Django models.
* Designed and developed the RESTFul web services using the JAX-RS API to communicate over the network.
* Provided non-breaking solutions on existing REST services, sometimes by versioning new APIs.
* Called the RESTful web services to get the JSON object (Response) and manipulated the JSON Object to display the response in the webpage.
* Worked in MySQL database on simple queries and writing Stored Procedures for normalization and renormalization.
* Build SQL queries for performing various CRUD operations like create, update, read and delete.
* Performed backup and recovery of MySQL databases.
* Ensured daily RMAN/MySQL Dump and export backups are completed and valid for restore and recovery.
* Performance Tuning on a daily basis for preventing issues and providing capacity planning using MySQL Enterprise Monitor.
* Developed stored procedures, triggers in MySQL for lowering traffic between servers & clients.
* Fine-tuned procedures/SQL queries for maximum efficiency in Oracle 10g, for Rule based optimization.
* Created parallel hints to parallelize operations and indexes for avoiding full table scans and disks sorts, and improved the performance and tuned the oracle queries.
* Creating scripts to Migrate data between different databases like Oracle to Postgres and vice versa using enterprise migration tool kit and Unix scripts.
* Worked on loading data from excel into Oracle Table using external tables.
* Written complex SQL's using joins, sub queries and correlated sub queries in Oracle to generate business reports accordingly.
* Installation and setting up Python/Django/MySQL in AWS and EC2 cloud platform.
* Managed Ubuntu Linux and Windows virtual servers on AWS EC2 using Open-Source Chef Server.
* Build scripts on AWS cloud for scheduling EC2 auto scaling load balancer with python sdk.
* Worked on AWS cloud watch for monitoring the application infrastructure and used AWS email services for notifying.
* Migrated applications from internal data center to AWS.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Worked in agile and waterfall methodologies with high quality deliverables delivered on-time.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Used Django for framework for accessing various consumer Data from various sources.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.

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| **Software Engineer** |
| **Infosys – India Aug 2011 to Jan 2013** |

**Description:** Carried out Multiple Projects for Different Clients in the Insurance/ Finance domain. Gained Experience in Front end as well as back development using Java Frameworks and IDE like Struts, Netbeans, Eclipse etc.

**Responsibilities:**

* Developed the components in the application using Core Java and using Spring Core, Spring AOP, Spring MVC and Spring DAO for various clients.
* Designed dynamic client-side JavaScript codes to build web forms and simulate process for web application, page navigation and form validation. .
* Extensively used Core Java such as Multi-Threading, Exceptions and Collections.
* Involved in writing Oracle PL/SQL functions, procedures and packages in Oracle RAC environment.
* Developed packages to move large amount of data to report database using partition exchange, data loading using oracle SQL Loader scripts to load data and also loaded data from a single flat file to multiple tables.
* Extensively worked on Databse using MySQL, Strong back-end designing and written extensive backend code on the server-side using PL/SQL, including packaged procedures, functions, and SQL\*PLUS.
* Developed API using Hibernate to interact with the MySQL database also created distributed MySQL coherence domains, configuration and system design based on oracle coherence.
* Produced SQL queries to provide data as requested by clients from MySQL database.
* Was Involved in optimizing MySQL queries, figuring out fast and efficient ways for them.
* Used Oracle Migration Workbench to migrate MySQL database to Oracle Database.
* Created SQL Scripts for data loads and Upgrades for data migrations and data validations.
* Used Spring Core Annotations for Dependency Injection.
* Created REST webservices using Spring for UI to interface with backend.
* Called REST web services through AngularJS services to get JSON Object and modified the response object to display in UI.
* Used the REST Templates in the spring services to call the REST web services.
* Consumed SOAP and Restful web services for communicating with other applications.
* Used JSP, HTML, CSS and JavaScript for content layout and presentation

**EDUCATION:** Bachelors in Computer Applications from Pune University, India in 2011