**Santosh Kumar Boyina**

**Professional Summary:**

* **6+ Years** of experience in IT industry with proficiency in Design & Development of **Python, Django, flask projects, JavaScript, AJAX** along with some other technical expertise.
* Experience in **LAMP** (Linux, Apache, MySQL, Python/PHP) Architecture and **WAMP** (Windows, Apache, MySQL, Python/PHP) Architecture.
* Expertise in **object oriented programming (OOP)** concepts using **Python**, PHP, and Java.
* Devise robust technology solutions for unique customer needs, investigating feasible solutions and environments using **C / C++, Python**.
* Building out the next-generation public-facing web site with an advanced **Django** based web frameworks.
* Extensive experience in system analysis, design, development and implementation of web based and client/server application using **HTML, CSS, JavaScript, AJAX, Java/J2EE, Servlets, JSP, JDBC, XML, XSLT, Python, Django.**
* Experienced in installing, configuring, modifying, testing and deploying applications with Apache.   
  Well versed with design and development of presentation layer for web applications using technologies like HTML, CSS, and JavaScript.
* Worked on several python packages like **NumPy, matPlotLib, Beautiful Soup, Pickle, PySide, SciPy, wxPython, PyTables** etc.
* Experienced in developing Web Services with Python programming language.
* Experience on **MySQL** and **MongoDB** database.
* Experience in designing the automation framework using **Python, Corn and Shell scripting**.
* Involved in Developing a Restful API'S service using **Python Flask framework**.
* Working knowledge in multi-tiered distributed environment, **OOAD** concepts.
* Good understanding of **Software Development Lifecycle (SDLC).**
* Experienced in **REST/SOAP Web Services** with Python programming language.
* Proficient in Front end development experience using **MEAN, HTML, XML, Backbone, CSS, JQuery, JSON and Javascript, CSS, Bootstrap**.
* Expertise in establishing database connections for Java and Python by configuring packages like **JDBC, MySQL-Python**.
* Have notable experience in Agile Methodologies, **Scrum stories** and sprints experience in a Python based environment, along with data analytics, data wrangling and Excel data extracts.
* Good experience in developing web applications and implementing **Model View Control (MVC)** architecture using server side applications **Django, Flask and Pyramid**.
* Experience in Analysis, Design, Development and implementation of various standalone, client-server enterprise applications.
* Excellent Experience of Databases such as **MySQL, MongoDB, Cassandra, Oracle 8g/9g/10g, Microsoft SQL Server, PostgreSQL, SQL/PLSQL** concepts
* Good Knowledge of using IDE Tools like Eclipse**, NetBeans, Android Studio, Visual Studio, IDLE**.
* Wrote AJAX framework to transform Datasets and Data tables into HTTP-serializable JSON strings.
* Experience on Ruby Reg-Ex for pattern and Text matching.
* Deployed **Django web application** in **Apache web server and carpathia cloud web deployment.**
* Experience in designing the automation framework using **Perl and Shell scripting**.
* Experience with Version Control, ideally **SVN, CVS and GIT**.
* Experience in gathering business requirements from stakeholders, making elevated level/detail design
* Good knowledge of Object Oriented Concepts, **Standard Template Library, smart Pointers**, Data Structures and Design patterns.
* Hands-on experience in writing and reviewing requirements, **architecture documents**, test plans, design documents, **quality analysis** and audits.
* Expertise in maintaining **technical documentation** for projects.
* Experience in developing **ColdFusion Components**, custom tags and **modified CF Objects**.
* Familiarity with development best practices such as code reviews and unit testing.
* Can understand complex systems and be in command of the details to provide solution.
* Willing to work in a highly dynamic environment and ready to take up challenges.
* Detailed, oriented and resourceful in the completion of projects with an ability to multitask and meet strict deadlines.

**Technical Skills:**

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| Operating systems | Windows, Linux – Ubuntu |
| Languages | Python 3.5/2.7, Core Java, C, C++, Python, Perl |
| Python Libraries | Beautiful Soup, NumPy, SciPy, Matplotlib, Python-twitter, Pandas data frame, network, urllib2, MySQLdb |
| Python Frameworks | Django, Pyramid, Flask |
| Analytics Tools | JMP PRO, SAS, Tableau, UCI NET, NodeXL |
| Markup languages | HTML, XML, JSON |
| Web Technologies | Django, AJAX, JavaScript, jQuery, CSS, XSLT, Bootstrap |
| Web Services | SOAP, RESTful |
| Databases | Oracle, My SQL, PostgreSQL, query languages: PL, SQL |
| IDEs/ Tools | Eclipse, Toad, Sublime text, Spyder, PyCharm, PyStudio,  NetBeans, Geany |
| Application/Web Servers | Apache Tomcat, IBM Web sphere, Apache HTTP |
| Version Control Systems | CVS, SVN, Git, GitHub, BitBucket |
| Methodologies & tools | Object Oriented Programming, UML, Agile Scrum |
| MS office tools | Microsoft Excel (Super user), Microsoft word, Microsoft PowerPoint, PPTPlex |

**Professional Experience:**

**Johnson Controls, MA Jan'2016-Dec’2018**

**Role: Sr. Python Developer**

**Responsibilities**:

* Django Framework that was used in developing web applications to implement the model view control architecture.
* Exposure on **Multi-Threading** factory to distribute learning process back-testing and the into various worker processes.
* Performed efficient delivery of code based on principles of **Test Driven Development(TDD)** and continuous integration to keep in line with **Agile Software Methodology** principles
* Different testing methodologies like unit **testing, Integration testing, web application testing Selenium testing performed.**
* **Lock mechanisms** were implemented and the functionality of multithreading has been used
* Python/Django based web application, **Postgresql DB**, and integrations with 3rd party email, messaging, storage services.
* Developed a fully automated continuous **integration system** using **Git, Gerrit, Jenkins, MySQL and custom tools developed in Python and Bash**
* Design and implemented **custom scripts**.
* Extensive use of version **controller Team Foundation Server(TFS).**
* Test and validated the custom scripts.
* Delivered automated solutions for **science models**
* **Managed, developed, and designed** a **dashboard control panel** for customers and Administrators using Django, **Oracle DB, PostgreSQL, and VMWare API calls**.
* Implemented configuration changes for data models.
* Maintained and updated existing automated solutions
* Handled potential points of failure through **error handling and communication of failure**
* **Anticipated** potential parts of **failure (database, communication points, file system errors)**
* Troubleshoot the process execution and worked with other team members to correct them.
* Actively worked as a part of team with managers and other staff to meet the goals of the project in the stipulated time.
* Performed **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
* Used **Pandas library for statistics Analysis**.
* Used **Numpy** for Numerical analysis for Insurance premium
* Managed large datasets using **Panda data frames** and MySQL.
* Used advanced packages in **AON PATHWISE** for performing unit test and deploying data models.
* Extensively used python modules such as requests, urllib, urllib2 for web crawling.
* Developed **GUI using webapp2** for dynamically displaying the test block documentation and other features of python code using a web browser.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Responsible for user **validations** on **client side** as well as **server side**.
* **Automated** the existing scripts for performance calculations using **Numpy and SQL alchemy**.
* Interacted with QA to develop test plans from **high-level design documentation**.

**Environment: Python 2.7, Django, HTML5/CSS, MS SQL Server 2013, MySQL, Javascript, Eclipse, Linux, Shell Scripting, JQuery, GitHub, Jira.**

**United Health Group, CT July’2014 - Dec'2015**

**Role: Python Developer**

**Responsibilities:**

* Responsible for setting up networks through Design and Development.
* Good knowledge of web services with protocols such as **SOAP and RESTful API**.
* I have used AWS (Amazon Web services) in **Redshift, EmR** for improved efficiency of storage.
* Wrote **AJAX** framework to transform Datasets and Datatables into HTTP-serializable JSON

Strings. Used Jenkins to deploy your **Django application** and run unit tests.

* Created specific images using **Python Imaging Library** for the custom images used for each book.
* Wrote scripts in Python for extracting data from HTML file.
* Used **python libraries** like Beautiful Soup and **matplotlib**, used **Pandas** for a data alignment and data manipulation.
* Utilized standard Python modules such as csv, **robotparser, itertools** and pickle for development.
* Worked on Python **OpenStack APIs** and used **Numpy** for Numerical analysis.
* Used Ajax and **JQuery** for transmitting **JSON** data objects between frontend and controllers.
* Developed **Wrapper in Python** for instantiating multi-threaded application.
* Engineered various custom modules for integration of various types of network circuits.
* Developed memory managed design patterns for various **GigE networks**.
* Optimized the code using smart pointers, profilers and C++ Standard template library.
* Directly responsible for various enhancements of Equipment updates/transmission of signals on

**OC/STS cables**.

* Authored important **Network APIs for Basis Video**, developed user interface screens and solved

Customer reported software bugs or issues.

* Used various Design Patterns in provisioning the networks.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and **MySQLdb** package to retrieve information.
* Rewrite existing Java, C++ application in Python.
* Responsibilities for creation of **Database, Business Logic** to display the records dynamically on template based on query, providing user permission to access particular features of the site.
* Used data structures like **directories, tuples**, object oriented class based inheritance features for making complex algorithms of networks.
* Did **Content Management** through front end, live search and normal search features.
* Used the Python's modules **numpy, matportlib** etc for generating complex graphical data, creation of histograms etc.
* Profiled python code for optimization and memory management.
* Implemented locking mechanisms using multi-threading functionality.

**Environment: Python2.7, Django, HTML5/CSS, XML, MySQL, JavaScript, JQuery, JavaScript, JSON, Ajax**

**Integrated Wireless Solutions, India June'2013 - July'2014**

**Role: Python Developer**

**Responsibilities**:

* Designed front end and backend of the application using **Python** on **Django** Web Framework.
* Used **HTML, CSS, AJAX, JSON** designed and developed the user interface of the website.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* Used JavaScript and **JSON** to update a portion of a **webpage.**
* Develop consumer based features and applications using Python, Django, HTML, **Behavior Driven Development (BDD)** and pair based programming.
* Rewrite 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 **JQuery** for the **data manipulations** on client side.
* Leveraged **CSS Bootstrap** for development of Web applications.
* Worked on deployment of project on to **Amazon S3**.
* Used GIT version control and deployed project to **Heroku**.
* Worked on development of SQL and stored procedures for normalization and renormalization in MYSQL.
* Build **SQL queries** for performing various **CRUD operations** like create, update, read and delete.
* Skilled in using Collections in **Python** for **manipulating and looping** through different user defined objects.
* Engaged in Design, Development, Deployment, Testing, Implementation of the application.
* Worked in development of applications especially in **UNIX environment** and familiar with all of its commands.

**Environment: Python 2.7, Django, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Mongo DB, MS SQL Server, T-SQL, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting.**

**Hucon Solutions, India May’2012 – June’2013**

**Role: Python Developer**

**Responsibilities:**

* Participated in the complete **SDLC process** and used PHP to develop website functionality.
* Coding in **LAMP (Linux, Apache, MySQL, and PHP)** environment.
* Developed **GUI HTML, XHTML, AJAX, CSS 5** and JavaScript (jQuery)
* Worked mainly on **Core Java, C++, STL**, data structures, UNIX, multithreading.
* Built application logic using Python2.7.
* Used **Apache Couchdb (NoSQL)** in AWS Linux instance in parallel to **RDS MySQL** to store and analyze job
* Developed the required XML Schema documents and implemented the framework for parsing XML

Documents.

* Involved in Unit testing and Integration testing.
* Developed **ColdFusion Components**, custom tags and modified **CF Objects**.
* Wrote AJAX framework to transform Datasets and Datatables into HTTP-serializable JSON strings.
* Used the Django Framework to develop the application.
* Used Django APIs for database access.
* UIS system design (Python Object Oriented Design approach, developing various

Modules/packages/utilities, e.g.: **Cryptography - Encryption/Hashing**, Foundation Utilities, and Personal

Management, error/exception management etc.)

* Used python to extract weekly hotel availability information from XML files.
* Used Web Services to get travel destination data and rates.
* Participated in requirement gathering and worked closely with the architect in designing and modeling.
* Issues pertaining to Realtime data being read from **RabbitMQ into Postgres and Cassandra**.
* Performed Design and Code reviews.
* Worked on development of **SQL** and stored procedures on **MYSQL**.
* Developed shopping cart for Library and integrated web services to access the payment (E- commerce)
* Used python modules such as requests, **urllib, urllib2 for web crawling**.

**Environment:** **Python, Windows, Django, MySql, Linux, HTML, CSS, JQuery, JavaScript, Apache.**

**Education**:

* Bachelors in Computer Science Engineering, Kalasalingam University, INDIA.