**Surendra K**

**Python Developer**

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**Professional Summary**

* Over 8+ years of experience as a Web/Application Developer and coding with analytical programming using **Python, Java**
* Experienced with full software development life-cycle, architecting scalable platforms, object oriented programming, database design and agile methodologies
* Experienced in **MVW** frameworks like **Django, Angular.js, Java Script, JQuery** and **Node.js**.
* Expert knowledge of and experience in Object oriented Design and Programming concepts.
* Experience object oriented programming (**OOP**) concepts using Python, **C++** and **PHP**.
* Experienced in **WAMP** (Windows, Apache, MYSQL, and Python/PHP) and **LAMP** (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Experience in leading multiple efforts to build **Hadoop** platforms, maximizing business value by combining data science with big data.
* Experience in **Cassandra** Database Configurations and its C++ client libQtCassandra.
* Advised organizations about big data, a big data strategy, the implementation of big data, which technologies best fit the needs of the organization and even implements the selected big data solution
* Experience in **Python OpenSatck API’S**
* High-level experience in Base **SAS**, **SAS/Macros, SAS/SQL, SAS/Stat, SAS/Connect, SAS/Access, SAS/Graph, SAS/ODS, SAS/EBI, SAS/Grid, SAS Visualizer, SAS/ETS** and **SPSS** modeler.
* Write **MATLAB** code to create discretized computer models of sloped levy geometries.
* Experienced in developing web-based applications using Python, Django, PHP, C++, **XML**, **CSS**, **HTML, DHTML**, , JavaScript and Jquery.
* 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.
* Familiar with **JSON** based REST Web services and **Amazon Web services**.
* Experienced in developing Web Services with Python programming language.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on **MySQL** and **PostgreSQL** database.
* Experienced in agile and waterfall methodologies with high quality deliverables delivered on-time.
* Experience in utilizing SAS Procedures, Macros, and other SAS application for data extraction, data cleansing, data loading and reporting.
* Maintained detailed documentation and architectural solutions in IT infrastructure and sales systems.
* Very strong full life cycle application development experience.
* Strong knowledge on **Dev Express Controls**.
* Strong database design and programming skills in **SQL Server 2012/2008/2005, SQL Stored**

**Procedures, functions, triggers, Cursors, Indexing, importing/exporting data from varied data sources**

* Experience with continuous integration and automation using Jenkins.
* Experience with Unit testing/ Test driven Development (TDD), Load Testing.
* Experience in developing ColdFusion Components, custom tags and modified CF Objects.
* Have the ability to understand complex systems and be in command of the details to provide solutions.
* Ability to learn and adapt quickly to the emerging new technologies and paradigms.
* Excellent communication, interpersonal and analytical skills and a highly motivated team player with the ability to work independently.
* Practical experience with working on multiple environments like development, testing, production.
* Hands-on experience in writing and reviewing requirements, architecture documents, test plans, design documents, quality analysis and audits.
* Excellent analytical and problem solving skills and ability to work on own besides being a valuable and contributing team player.

**SKILLS:**

* Have good communication skills.
* Always punctual to work
* Good time management
* Easily coping up with the team environment

**TECHNICAL PROFICIENCY:**

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| --- | --- |
| OS Platforms | Linux/Unix, Windows-98/NT, MAC OSX |
| Languages | Python 2.7/2.4, Java, Shell Script, Perl, Scala |
| Databases | MySQL, SQL Server 2008, PostgreSQL |
| Web Technologies | AJAX, AWS EC Cloud, Amazon S3 JavaScript, HTML, DHTML, XHTML, XML |
| Versioning Tools | Git, SVN |
| Web servers | Apache, Nginix , Tomcat, JBoss |
| Framework | Django,Flask |
| Other Tools | Putty,SQl developer,Photoshop,JIRA,Opensatck |

**Work Experience**

**FM Global - Jhonston, RI Jan 2015 to Present**

**Sr Python Developer**

This is a [mutual insurance](https://en.wikipedia.org/wiki/Mutual_insurance) company, with offices worldwide, that specializes in loss prevention services primarily to large corporations throughout the world in the Highly Protected Risk(HPR) property insurance market sector.

**Responsibilities:**

* Participate in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.
* Worked with team of developers on Python applications for RISK management.
* Developed Python/Django application for Google Analytics aggregation and reporting.
* Used Django configuration to manage **URLs** and application parameters.
* Worked on Python Open stack **API's**.
* Used Python scripts to update content in the database and manipulate files.
* Generated Python Django Forms to record data of online users
* Used Python and Django creating graphics, **XML** processing, data exchange and business logic implementation.
* Used **PHP** as an **HTML** embedded scripting language,in front end web development.
* I have used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Added support for Amazon **AWS S3** and **RDS** to host static/media files and the database into Amazon Cloud.
* Used Pandas library for statistical Analysis.
* 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.
* Worked very closely with designer, tightly integrating Flash into the CMS with the use of Flashvars stored in the Django models. Also created XML with Django to be used by the Flash.
* Used HTML, CSS, JQuery, JSON and Javascript for front end applications.
* Designed and developed the UI of the website using **HTML, XHTML, AJAX, CSS** and JavaScript.
* Also used Bootstrap as a mechanism to manage and organize the html page layout.
* Used Django configuration to manage URLs and application parameters.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and **MySQLdb** package.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Used **LINUX** as trouble shooter for systems.
* Worked on development of SQL and stored procedures on MYSQL.
* Responsible for debugging the project monitored on **JIRA** (Agile).
* 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.

**Environment** :**Python,Amazon AWS S3,MySQL,HTML,Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, MS SQL Server, JavaScript, AWS, Linux, Shell Scripting,PHP,AJAX,cassandra.**

**Sr Python Developer**

**Deustche bank – NJ** **Dec 2013 to Nov 2014**

Deustche bank is a German global banking and financial services company offering financial products and services for corporate and institutional clients along with private and business clients. Services include sales, trading, research and origination of debt and equity; mergers and acquisitions (M&A); risk management products, such as derivatives, corporate finance, wealth management, retail banking, fund management, and transaction banking.[[](https://en.wikipedia.org/wiki/Deutsche_Bank#cite_note-8)

**Responsibilities:**

* Worked with team of developers on Python applications for RISK management.
* Designed the database schema for the content management system.
* Designed and developed the UI of the website using **HTML, XHTML, AJAX, CSS** and JavaScript.
* Involved in development of Web Services using **SOAP** for sending and getting data from the external interface in the XML format.
* Used **PHP** to write dynamically generated pages quickly.
* Experienced Python on **LINUX** for execution.
* Wrote Python routines to log into the websites and fetch data for selected options.
* Performed testing using **Django's** Test Module.
* Web pages on the internet are generated by servers running **LINUX.**
* Worked on middle tier and persistence layer. Created service and model layer classes and Value objects/**POJO** to hold values between java classes and database fields.
* Exported/Imported data between different data sources using SQL Server Management Studio.   
  Maintained program libraries, users' manuals and technical documentation.
* Responsible for debugging and troubleshooting the web application.
* Worked **PHP** as a server side scripting language, for web pages.
* Successfully migrated all the data to the database while the site was in production.
* Implemented the validation, error handling, and caching framework with Oracle Coherence cache.
* Worked on scripts for setting up the discovery client with attribute data. Worked on scripts(granite reference data scripts) for setting up adapter attributes in granite system.

**Environment:  Python 2.7, Django 1.4, HTML5, CSS, XML, MySQL, JavaScript, Backbone JS, JQuery, Mongo DB, MS SQL Server, JavaScript, Git, GitHub, AWS, Linux, Shell Scripting,AJAX,JAVA, PHP.**.

**Sr Python Developer**

**Mangstor – Austin,Tx Feb 2012 to Nov 2013**

Mangstor is a leading developer of NVMe Flash Storage Solutions to accelerate application workloads in Web-scale and Enterprise Data Centers. Mangstor's NVMe over Fabric Flash Storage Arrays and NVMe Solid-State devices provide the building blocks necessary for high-performance, highly-available, and cost-effective storage infrastructure.

**Responsibilities:**

* Data warehouse migration Sybase 12.5 to Sybase 15.7
* More than 70% of work is developing code in Python, remaining time spent on database development and data modelling.
* Worked on requirement gathering, high level design, implementation, testing and deployment of code.
* Creating and following the production deployment runbook.
* Did Proof of Concept on DB2 BLU(column organized database)
* Task prioritization with clients
* Designed and developed reusable Autosys jobs parsing and documentation software in Python using object oriented features, being implemented in other projects in firm.
* Designed and developed database object parsing, dependency builder and documenting software in Python using object oriented features
* Developed **ETL** (Extract Transform Load) software for DB2 columnar database fact and dimension tables.
* Performed operations on **LINUX** for receiving good support for the large users.
* Massive data processing (Sybase ~15TB and Db2 ~2TB)
* Data modelling in Sybase and **DB2**.
* Setting up schema, users, permissions, creating database objects
* Database performance tuning - procedures, table functions(db2)
* Provide L2/L3 support on rotational basis
* Database objects refactoring, removing legacy duplication
* Built pluggable software for housekeeping and clean-up, being used by other projects in firm
* Data load analysis package to reveal errors during load based on historic trend
* Data reconciliation program for Sybase vs Db2, and Db2 vs Db2 (prod vs qa) in Python
* Other tools developed in Python to automate daily activities in python like monitoring DB
* Worked with shell scripts to build wrapper around ETL to do one time historic load.

**Environment: Python, Java, MySQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, Apache Web Server ,cassandra.**

**Python Developer**

**Bosch Designs** **– Novi, MI March 2010 – Dec 2011**

Bosch designs and produces precision automotive components and systems sold to vehicle and powertrain manufacturers worldwide. These include systems and components for gasoline and diesel injection, airbag components, ABS and conventional braking systems, telematics, as well as small motors, electrical and electronic equipment. Worked on development of Warranty and defects tracking system. 

**Responsibilities:**

* Wrote Python routines to log into the websites and fetch data for selected options.
* Used Python modules such as requests, urllib, urllib2 for web crawling.
* Used other packages such as Beautifulsoup for data parsing.
* Worked on writing and as well as read data from csv and excel file formats.
* Developed a MATLAB algorithm which determines an object's dimensions from digital images.
* Web-services backend development using Python (**CherryPy, Django, SQLAlchemy**).
* Participated in developing the company's internal framework on Python. This framework became a basement for the quick service's development. Framework based on **CherryPy** with **GnuPg encryption** (reGnuPg module) on the top.
* Worked on resulting reports of the application and Tableau reports.
* Worked on **HTML5, CSS3, JavaScript, AngularJS, Node.JS, Git, REST API, Mongo DB, intelliJ IDEA.**
* Design and Setting up of environment of **Mongodb** with shards and replicasets. (Dev/Test and Production).
* Private VPN using Ubuntu, Python, Django, CherryPy, Postgres, Redis, Bootstrap, Jquery, Mongo, Fabric, Git, Tenjin, Selenium, Sphinx, Nose.
* Modifying data using SAS/BASE, SAS/ MACROS.
* Extracting data from the database using **SAS/Access, SAS SQL** procedures and create **SAS data sets**.
* Performed QA testing on the application.
* Developed approaches for improving NLP pipeline.
* Create custom VB scripts in repackaging applications as needed.
* NLP File Prep Settlement-Prepare files for review for Settlement.
* Held meetings with client and worked all alone for the entire project with limited help from the client.
* Participated in the complete **SDLC** process.
* Developed rich user interface using **CSS, HTML, JavaScript and JQuery**.
* Created a Python based **GUI** application For Freight Tracking and processing
* Used Django framework for application development.
* Developed and maintained various automated web tools for reducing manual effort and increasing efficiency of the Global Shipping Team.
* Created database using MySQL, wrote several queries to extract data from database.
* Setup automated cron jobs to upload data into database, generate graphs, bar charts, upload these charts to wiki, and backup the database.
* Wrote scripts in Python for extracting data from HTML file.
* Effectively communicated with the external vendors to resolve queries.
* Used Perforce for the version control.

**Environment:** **Python, Django 1.4, MySQL, Windows, Linux, HTML, CSS, JQuery, JavaScript, Apache, Linux.**

**Software Engineer / Python**

**SIM Solutions Pvt Ltd – Delhi, India Nov 2008 to Jan 2010**

An e Commerce company (HQ in California, US) providing services in multiple disciplines, like - On line Shopping Cart Development, On line Promotion, Price Comparison Shopping, SEO, Customer & Technical Support through - Chat, Email and Voice.

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) such as requirements gathering, modelling, analysis, design and development.
* Generated Use case diagrams, Activity flow diagrams, Class diagrams and Object diagrams in the design phase.
* Responsible for entire data migration from Sybase ASE server to Oracle
* Migration of API code written for Sybase to Oracle.
* Overlook the migration activity of **PL/SQL** programs
* Migration of the PL/SQL code from Sybase to Oracle.
* Migration of the data contained in the earlier **ASPL** Database from Sybase to Oracle.
* Migrate the Libraries written using Sybase API's to Oracle's OCCI API's
* Automation of testing using Python.

**Environment : Python 2.7, Shell scripting,PL/SQL, SVN, Quality Center, Solaris, Windows, perl**.

**Education Details:**

Bachelors of Computer Science , Vignan University,2008