**B.Gunadeep**

**Sr.Python Developer.**

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**Professional Summary:**

* 8+ years of experience as a **Python Developer,** proﬁcient coder in multiple languages and environments including Python, **RESTApi, AWS, C, C++** and SQL.
* Worked on several standard python packages like **Numpy, matPlotLib,** **Pickle, PySide, Scipy,** **wxPython, PyTables** etc.
* Driven to architect Big Data solutions on multiple platforms using data analytics.
* Develop **ETL** packages using SSIS to insert datasets to SQL server and generate project reports using SSRS and SQL.
* SQL Reference Mapper, using Regular Expressions Successfully mapped over a hundred thousand SQL references inside of SQL Object source code, VB code, SSRS reports, and DTS packages.
* Experience in working on **BDPaaS** (BigData Platform as a Service).
* Worked on various applications using python integrated IDEs Eclipse, NetBeans and Geany.
* Excellent working knowledge in UNIX and Linux shell environments using command line utilities.
* Hands on Experience in Data mining and Data warehousing using ETL Tools and Proficient in Building reports and dashboards in **Pentaho** (BI Tool).
* Expertise in working with different databases like Microsoft SQL Server, Oracle, **MySQL, PostgreSQL** and Good knowledge in using NoSQL databases **MongoDB** (2.6,2.4).
* Expertise in Production support. Provided first, second and third level support to different organizations. Used pdb, gdb and other debugging tools and deployed production hot fixes.
* Familiarity with development best practices such as code reviews, unit testing, system integration testing (**SIT**) and user acceptance testing (**UAT**).
* Used PIP package management system, to install and manage various required software packages used.
* Experience in working with CCM (Cassandra Cluster Manager).
* Expertise in Production support. Provided first, second and third level support to different organizations. Used **pdb, gdb** and other debugging tools and deployed production hot fixes.
* Experience with an in-depth level of understanding in the strategy and practical implementation of **AWS** Cloud-Specific technologies including EC2, Cloud Front, Cloud Formation, SNS, and Dynamo DB.
* Knowledge of deployment tools using **Heroku**, **Jenkins**, **pylint, cppCheck** and **Coverity**.
* Hands on experience working in **WAMP** (Windows, Apache, MYSQL, and Python/PHP) and **LAMP** (Linux, Apache, MySQL, and Python/PHP) Architecture.
* Good experience in handling errors/exceptions and debugging the issues in large scale applications.
* Experience in writing test scripts, test cases, test specifications and test coverage.
* Highly motivated, quality minded developer, with proven ability to deliver applications against tight deadlines.
* Possess good interpersonal, analytical presentation Skills, ability to work in Self-managed and Team environments.

**Technical Skills**:

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| **Programming Languages** | Python, C, C++, Perl, Shell Scripting. |
| **Operating Systems** | Windows 9x/XP/2000/Vista/7, Windows server 2008, Sun Solaris,IBM AIX, RHEL, Ubuntu, Fedora. |
| **Python Libraries** | Python, Django, Flask, Beautiful Soup, httplib2, Jinja2, HTML/CSS, Bootstrap, jQuery, Numpy, matPlotLib, Pickle, PySide, Scipy, wxPython, PyTables, pdb |
| **Frameworks** | Django, Flask, Pyramid, Pyjamas, Jython, Angular JS, Node JS,Spring. |
| **IDE’S** | Sublime Text 2, VIM, Pycharm, PyDev, NetBeans, Eclipse. |
| **Development tools** | Sublime Text, Eclipse, emacs, gvim, Notepad++, OpenGrok,Jenkins, Coverity, pylint |
| **Databases** | Microsoft SQL Server, Oracle, MySQL, PostgreSQL, and NoSQL, databaseMongoDB(2.6,2.4) |
| **Version Controls** | cvs, svn, git, GitHub |
| **Methodologies** | Agile, SCRUM and Waterfall. |

**Professional Experience:**

**Role: Sr.Python Developer. April 2016 to Present**

**Client: ERICSSON.**

**Responsibilities:**

* Created specific images using Python Imaging Library for the custom images used for each book.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Worked with Private VPN using Ubuntu, Python, Django, CherryPy, Postgres, Redis, Bootstrap, Jquery, Mongo, Fabric, Git, Tenjin, Selenium, Sphinx, Nose.
* Wrote Python routines to log into the websites and fetch data for selected options.
* Performed testing using Django's Test Module.
* Involved in Data Modeling, Data Extraction, Data Integration, Data Wrangling, Data Warehousing.
* Implementing customer data collection with pyspark analytics.
* Exported/Imported data between different data sources using SQL Server Management Studio.
* Worked with linux platform for python programming and shell scripting.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS Pyspark and JavaScript.
* Responsible for debugging and troubleshooting the web application.
* 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.
* Used JIRA for bug tracking and issue tracking.
* Developed Python/Django application for Analytics aggregation and reporting. Used Django configuration to manage URLs and application parameters.
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation.

**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.

**Role: Sr.Python Developer. July 2014 to March 2016**

**Client: Sirius XM, Dearborn, MI.**

**Responsibilities:**

* Created Python **ETL** code to extract information about artists, channel information and on-demand shows from various sources including binary, text files, scraping the websites and then clean up the data and storing this info into Microsoft SQL Server.
* Develop scheme- and data-level database testing tool.
* Followed **AGILE** development methodology to develop the application and Used the **GO** Programming Language to refactor and redesign the legacy databases.
* Developed **SOAP** web service to provide server-side info on user attributes, channel descriptions and other on-demand live show information.
* Design MDM integration facilities (SOA-style).
* Design database using **Erwin** and **Python/Django** for DB scheme scripting.
* Analyzed clients’ needs and developed software tools to assist dynamic site content creation (Python, wxPython).
* Successfully integrated the accounting/technical functions between channel data providers and internal XM Sirius api's to track the usage in Python and c++.
* Strong knowledge of **Data Structures and Algorithms**, Object Oriented Analysis, machine learning and software design patterns.
* Writing **Pig** **Latin** scripts and **Hive** query language to process the data and also written UDF in Java and Python.
* Experiences in working with various Python Integrated Development Environments like **NetBeans, PyCharm, PyScripter, Spyder, PyDevand Sublime Text.**
* Migrated C and C++ tasks to Python. Generated **SWIG interfaces** for tasks that are good to be left in C++. Interacted with Python using SWIG interfaces.
* **SQL Workflow System**, using Python created an adapter allowing communication between **SharePoint** lists and **SSIS** packages. This system provides users the ability to create complex automation workflows.
* **Excel Batch up-loader**, software that quickly uploads large batches of Excel Workbooks into our SQL Databases, while providing sanitizing and validation services.
* Generated various compliance and user reports in Python including **FINRA** **OATS** reports, user P&L reports, customized reports for users, user permissions and security information reports. Used Python MySQL connectors to pull data from db's.
* Mainframe access profiles, using a series of algorithms created access profiles securing company mainframe system and allowing for auditing purposes and easier acclimation of new hires.
* Integrated **Opengrok** into development environment for making source code visible across the organization.

**Environment:** Python, JavaScript, C++, SQL, ETL, CCM, Erwin, SOAP, FIX, TCP/IP programming, MySQL, cppCheck, Jenkins, Coverity, Agile.

**Role: Sr.Python Developer. November 2012 – June 2014**

**Client: Google, San Jose, CA.**

**Responsibilities:**

* Involved in preparing engineering specification with **OOA** and **OOD**. Used UML Tools to develop Use Case diagrams, Class diagrams, Collaboration and Sequence Diagrams, State Diagrams and Data Modeling.
* Designed and developed database schema, various stored procedures, triggers and data reports.
* Developed application logic using Python, Java script, Java, C++.
* Used **JMS** for updating Mailing plans and tracking them.
* Used **Java Server Pages** for content layout and presentation.
* Created Data layer in MYSQL.
* Lead a team of four to setup Redfish implemented server at TTU Data Centre.
* Performing a comparative study between **Redfish API** and an existing standard Intelligent Platform Management Interfaces.
* Extracted and loaded data using **Python scripts** and **PL/SQL** packages
* Supported Java application for Media portal management.
* Strong development experience building custom applications utilizing the BMC ARS platform and tools with a specialty in ITSM framework based workflow
* Generated various reports in Python for channel usage, system downtimes, catching exceptions, and performance related metrics.
* Generated **SWIG interfaces** to co-ordinate between C++, Java and Python. Used JNI for communication between C++ and Java.
* Developed exhaustive SQL Queries to find differences in datasets to find out whether rolled software has fixed issues.
* Developed scripts to migrate data from proprietary database to MYSQL.
* Developed SOAP web service to provide server-side info on user attributes, channel descriptions and other on-demand live show information.
* Wrote python scripts to parse **XML** documents and load the data in database.
* Generated property list for every application dynamically using python.
* Creating unit test/regression test framework for working/new code.
* Debugging and testing of the applications & fine-tuning performance. Provided maintenance support in production environment.

**Environment:** Java, Python, JavaScript, JIRA, HTML/CSS, MySQL, Redfish, PL/SQL, JDBC, Unix Shell Scripting, BMC, Red Hat Linux, WebLogic Application Server, iDRAC.

**Role: Software Developer in Python. May 2011 – Sept 2012**

**Client: Tech Mahindra – Hyderabad, India.**

**Responsibilities:**

* Developed UI using HTML, AJAX, JavaScript and jQuery and jQueryUI.
* Designed and developed components using Python. Implemented code in python to retrieve and manipulate data.
* Worked with the Stakeholders, gathered requirements developed High level design Detail design documents.
* Implemented database access using Django ORM.
* Used Python and Django creating graphics, XML processing of documents, data exchange and business logic implementation between servers.
* Developed Micro services using Go language and worked on test cases.
* Used **Restful APIs** to access data from different suppliers and to gather network traffic data from servers.
* Used MySQL as backend database and **Mysqldb** of python as database connector to interact with MySQL server.
* Support the scripts configuration, testing, execution, deployment and run monitoring and metering.
* Supported **Apache Tomcat web server** on Linux Platform.
* Developed and executed User Acceptance Testing portion of test plan.
* Re-engineered various modules for implementing changes and creating efficient system.

**Environment:** Python, C++, HTML Restful API, MySQL, Shell Scripting, PL/SQL, Unix, Linux.

**Role: Software Developer in Python. June 2009 – April 2011**

**Client: Future Leaders Group – Mumbai, India.**

**Responsibilities:**

* Analysis and Design of application.
* Developed entire frontend and backend modules using Python on **Django** Web Framework.
* Worked with millions of database records on a daily basis, finding common errors and bad data patterns and fixing them.
* Exported/Imported data between different data sources using SQL Server Management Studio.
* Maintained program libraries, users' manuals and technical documentation.
* Managed large datasets using **Panda data frames** and MySQL.
* Wrote and executed various MYSQL database queries from python using Python-MySQL connector and MySQL package.
* Carried out various mathematical operations for calculation purpose using python libraries.
* Built various graphs for business decision making using Python **matplotlib** library.
* Fetched twitter feeds for certain important keyword using python-twitter library.
* Used Python library Beautiful Soup for webscrapping.ss.
* 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.
* Implement code in python to retrieve and manipulate data.
* Used Django configuration to manage URLs and application parameters.
* Also used Bootstrap as a mechanism to manage and organize the html page layout.

**Environment:** Python, Django, Flex, Beautiful soup, PyUnit, Angular.js, Node.js, XML, MS Visio, MS Project, JIRA, Apache, Git, UML, SQL, Windows and Linux.

**EDUCATION:**

* **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY,** Hyderabad, India

Bachelor’s Degree – Information Technology.