**ROHIT G**

**Python Developer**

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# Summary

* **8** Years of experience in IT industry with proficiency in Design & Development of **Python**, **Jupyter**, **SQL**, **Angular** and **AWS** projects.
* Full SDLC experience in Analysis, Design, Development, Testing, Customization, Bug fixes, Enhancement, Support and Implementation of various web, stand-alone, client-server enterprise applications using **Python**, **C++**, in various domains.
* Very Strong in **Python**, statistical analysis, tools, and modeling.
* Expert knowledge of and experience in Object Oriented Design and Programming concepts.
* Hands-on experience creating **Jupyter** Notebooks and managing content for **Python**, **NoSQL**, **Scala** and Streaming Analytics.
* Extensive use of Python within **Jupyter** Notebook to ingest, analyze and report for projects having vast datasets.
* Good knowledge on implementing discretization and binning, data wrangling, cleaning, transforming, merging and reshaping data frames.
* Experience in **Shell Scripting**, **SQL Server**, **UNIX**, **Linux** and **Open stack**.
* Excellent Experience on various Python integrated IDE's such as **Sublime Text**, **Geany**, **Pycharm**, **Eclipse** and **NetBeans**.
* Experienced in developing Web Services with Python programming language.
* Expertise in creation & management of **EC2**, **S3**, Identity & Access Management Other AWS Services.
* Managing storage requirements using Amazon S3 service.
* Worked on several python packages like **Numpy, Pandas, Pytables, matPlotLib, Beautiful Soup, Pickle, PySide, Scipy, wxPython, PyTables** etc.
* Experience in Data Migrations, Data Cleaning, Transformation, Integration, Imports and Exports using combination of Python and databases like MySQL and MongoDB.
* Experience in designing the automation framework using Python, Corn and Shell scripting.
* Experience writing backend **Python-Flask** based rest API for both Admin group users and normal users.
* Using Python and Bash to analyze the massive data logs to make sense of application proficiency and for error resolving.
* RESTful and Selenium automation with Python, CLI and shell scripting.
* Development of Python code for instantiating multi-threaded application and running with other applications with designing and development of database using MYSQL.
* Creating **AWS** load balancers to distribute the load on different servers as per the application requirements.
* Hands on Experience in Infrastructure automation on AWS using Terraform, **Python** **boto3** and AWS cli.
* Very proficient in **SQL** tuning and optimization of queries.
* Expert in Data Extraction, Transforming and Loading (**ETL**) using various tools such as **Informatica** and **Talend**.
* Extensive working experience in creating visualizations and Dashboards using **Tableau** Desktop.
* Hands-on experience in installing, configuring, managing, upgrading the **Tableau** server.
* Experience in working on version control systems like **Subversion**, and **GIT** and used Source code management client tools like GitHub, Git and other command line applications etc.

# Skills

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| --- | --- |
| **Languages** | Python, Shell Script, C, C++, SQL, PL/SQL, PHP. |
| **Databases** | MySQL, NoSQL, MS SQL Server, Oracle9i/10g, Greenplum, MS Access, Redis, MongoDB, MemCached, Elastic Cache. |
| **Cloud Technology** | AWS, Heroku, IBM Bluemix. |
| **Libraries** | Flask, Pandas, MatplotLib, Numpy, Scipy, Scarpy, BeautifulSoup, SciKit-Learn. |
| **Web Technologies** | AngularJS, HTML, CSS, XML, AJAX. |
| **Tools/Frameworks** | GIT, SVN, Jenkins, REST, Informatica, Talend, Business-Objects, Tableau, Hadoop, D3. |
| **IDE** | Jupyter, Sublime Text, Geany, Pycharm, Eclipse, NetBeans. |
| **Operating System** | UNIX, Linux, Windows, Mac. |

# Certificates

* **Getting Started with Python**: Python Dev Course Certificate.
* **Python Data Structures**: Python Dev Course Certificate.
* **Using Python to access Wed-Data**: Python Dev Course Certificate.
* **Using Databases with Python**: Python Dev Course Certificate.

# Education

* **Master of Science in Computer Science:** University of Texas at Arlington, Texas, USA
* **Bachelor of Engineering in Computer Science & Engineering:** Nagpur University, Maharashtra, India

# Work Experience

**Sr. Python Developer**

Bank of America - Charlotte, NC

Mar 17 – Present

**Description**: Bank of America is one of the world's leading financial institutions, serving individual consumers, small and middle-market businesses and large corporations with a full range of banking, investing, asset management and other financial and risk management products and services.

**Responsibilities**:

* Developed and handled business logics by backend **python** programming to achieve optimal results.
* Worked on Element Tree XML API in python to parse **XML** documents and load the data in database.
* Developed Python based API (**RESTful** Web Service) to track the events and perform analysis using Django.
* Created a **Python**/**Django** based web application using Python scripting for data processing, **MySQL** for the database, and **HTML**/**CSS**/**JQuery** and **HighCharts** for data visualization of the served pages.
* Used **PyUnit**, Python unit test framework for all the Python applications and Performed troubleshooting, fixed and deployed many Python bug fixes.
* Used Python based GUI components for the front-end functionality such as selection criteria.
* Implemented selection queries and obtaining the data results in **Jupyter** notebook.
* Designed and developed data management system using **MySQL**.
* Created action filters, parameters, and calculated sets for preparing dashboards and worksheets in **Tableau**.
* Creating users, groups, projects, data connections, settings in **Tableau**.
* Created **AWS** cloud formation templates to create custom-sized **VPC**, subnets, **EC2** instances, **ELB**, security groups.
* Worked on tagging standard for proper identification and ownership of **EC2** instances and other AWS Services like **Cloud Front, cloudwatch, RDS, S3, Route53, SNS, SQS, Cloud Trail**.

**Environment: Python 2.7, Jupyter, PyUnit, XML, REST, Django, MySQL, Requests, Urllib, AWS EC2, ELB, VPC, Cloud Front, cloudwatch, RDS, S3, Route53, SNS, SQS, Cloud Trail, Tableau.**

**SR. SOFTWARE DEVELOPER**

AC Nielsen - Raleigh, NC

Jan 16 – Feb 17

**Description**: Nielsen is a global measurement and data analytics company that provides the most complete and trusted view available of consumers and markets worldwide. Our approach marries proprietary Nielsen data with other data sources to help clients around the world understand what's happening now, what's happening next, and how to best act on this knowledge.

**Responsibilities**:

* Used Python within **Jupyter** Notebooks to leverage several different data science tools via Python libraries.
* Used several python libraries like **wxPython**, **numPY** and **matPlotLib**.
* Used Python to build notepads to manipulate user data in Jupyter.
* Reviewed and debugged Client's **Jupyter**/ **Ipython** notebooks also improving navigation experience over long pages.
* Developed **Python** code for instantiating **multi-threaded** application and running with other applications and Designed and developed Database management using **MYSQL**.
* Wrote and executed various **MySQL** database queries from **Python-MySQL** connector and MySQL DB package and Created Unit test framework for new codes.
* Responsible for debugging and troubleshooting issues and Implemented Web Services using **SOAP** for sending and receiving data from external interface in **XML** format.
* Skilled in using collections in **Python** for manipulating and looping through different user defined objects.
* Involved in building database Model, APIs, and Views utilizing Python technologies to build web-based applications
* Worked on data cleaning, data preparation and feature engineering with Python 3.X.
* Used **Django** framework to develop the application and used Python modules such as **requests**, **urllib** and **urllib2** for web crawling.
* Used collections in Python for manipulating and looping through different your defined objects.
* Wrote scripts in Python for extracting data from **HTML** file using Python library **Beautiful Soup**.

**Environment**: **Python 2.7, Django, Jira, Jupyter, wxPython, numPY, matPlotLib, Ipython, MySQL, SOAP, Python-MySQL, JSON, XML, HTML, Beautiful Soup, requests, urllib, urllib2.**

**sr. sOFTWARE DEVELOPER**

Catapult Health – Dallas, TX

Nov 14 – Jan 16

**Description**: Catapult Health is on the leading edge of healthcare and data management technology. The technology platform is designed and built specifically for the efficient and accurate delivery of worksite preventive checkups in all 50 states.

**Responsibilities**:

* Design Python API's that communicate with the backend of our SaaS system using a Linux Server and the **Flask** micro framework from **Python**.
* Conducted descriptive statistics, text analytics, exploratory analysis and data visualization with **Python**.
* Developed Python Mapper and Reducer scripts and implemented them using Hadoop streaming.
* Administration of **Linux** machine and configured **Apache python** mod to host the website and Jira Implementation and Jira Customization, Issue Scheme, Workflow, Screen schemes.
* Helped with the migration from the old server to **Jira** database (Matching Fields) with Python scripts for transferring and verifying the information.
* Developed clutter free **Tableau** dashboards for various departments.
* Set up tableau data sources and refresh schedules in server.
* Worked in Tableau environment to create dashboards like weekly, monthly, daily reports using **Tableau** desktop.
* Handled the huge data volume by using **Tableau** extracts.
* Troubleshooting the failed **SQL** jobs due to errors in the sample processing and fixing them and re-scheduling the SQL Jobs.
* Validate data before performing **ETL** transformations and load into SQL server database. And created stored procedures, user defined functions, complex queries and Joins in **T-SQL**.
* Upgraded Python 2.5 to Python 2.7 on a RHEL server. This upgrade was necessary because in lined models with UTF-8 characters were causing unexpected errors.

Developed Application to access **JSON** and **XML** from Restful Web Service from consumer side using JavaScript and AngularJS.

**Environment: Agile Methodologies, Python 2.7, Jupyter, Flask, Tableau, Oracle 10g, SQL, JSON, XML, Javascript, AngularJS, REST.**

**SOFTWARE DEVELOPER**

WellMed – San Antonio, TX

Apr 12 – Oct 14

**Description**: WellMed is a network of doctors, specialists and professionals providing care for older adults with over 12000 doctors' offices in Texas and Florida. WellMed is changing the face of health care delivery for seniors by providing quality, proactive patient care with a focus on prevention.

**Responsibilities**:

* Implementing admin sites to manage database information with **Flask-Admin, MySQL** and **SQLite**.
* **Python** scripting implementation for processing database records.
* Extensive experience doing backend development using Python.
* Contributed to development of client side and server-side codes for external and internal web applications.
* Developed views and templates with **Python** and **Django's** view controller and template language to create a user-friendly website interface.
* Developed python templates to create different call scenarios like CS, PS, Multi RAB, SMS, Simultaneous calls.
* Used Python and **Django** creating graphics, **XML** processing, data exchange and business logic implementation.
* Analyzing various logs that are been generating and predicting/forecasting next occurrence of event with various Python libraries.
* Developed a fully automated system using **Git, MySQL** and custom tools developed in **Python** and **Bash**.
* Developed python scripts to tokenize XML data and store them to **MongoDB** Load tested REST API's using **SIEGE**.
* Utilized standard Python modules such as **csv, robotparser, itertools** and **pickle** for development.
* Worked on Python OpenStack APIs and used **Numpy** for Numerical analysis.
* Automated reports for all kind of activities and Prototype proposal for Issue Tracker website using Python/Django connecting MySQL as Database.
* Successfully migrated the Django database from SQLite to MySQL with complete data integrity.

**Environment: Python, MySQL, SQLite, GIT, Numpy, Bas, XML, Django, Flask-Admin.**

**Systems Engineer**

Tata Consultancy Services – Mumbai, India

Apr 11 – Feb 12

**Description**: Tata Consultancy Services (TCS) is an IT services, consulting and business solutions organization that delivers real results to global businesses, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT, BPO, infrastructure, engineering and assurance services.

**Responsibilities**:

* Worked as a **Python** Systems Developer for client Citi Bank.
* Developed Python scripts to read from Excel files, generate XML configuration files and for generating IP access frequency lists in different data logs.
* 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.
* Used **Pandas** library for statistical Analysis.
* Designed views and templates with **Python** and **Django's** view controller and templating language to create an easily accessible interface for users.
* Designed and developed data management system using **MySQL**. Built application logic using Python.
* Provided GUI utilizing **PyQt** for the end user to create, modify and view reports based on client data.
* Refactored existing batch jobs and migrated existing legacy extracts from **Informatica** to **Python** based micro services and deployed in **AWS** with minimal downtime.
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Created test harness to enable comprehensive testing utilizing Python.
* Designed email marketing campaigns and created responsive web forms that saved data into a database using **Python**/ **Django** Framework.

**Environment: Python 2.7, Django, Excel, Oracle 9g, XML, AWS, SQL, JSON, XML, Javascript, AngularJS.**

**SOFTWARE DEVELOPER**

Byte Alpha Solutions – Hyderabad, India

May 10 – Feb 11

**Description**: Byte Alpha Solutions is a software company with expertise in digital technology, that offers a wide variety of products and solutions. It is a technology driven product development, engineering and consulting services company with a rigor of engineering and close alignment to the customer business goals.

**Responsibilities**:

* Responsibilities include the creation of test documentation, debugging, and investigating issues by utilizing MS Visual Studio C/C++.
* Responsible for **C++** software development enhancements and maintenance of Store Inventory Management System in an **Agile** model.
* Implemented a hash table and **BST** to insert, delete, or search for a rock/mineral in the database with its own unique key, and utilized a stack to undo a deletion.
* Explore fault injection tools written in different languages like **C**, **C++** and suggest integration of tools.
* Responsible for logical and physical design of **SQL** Server databases.
* Wrote database triggers in **PL/SQL** to check the referential integrity of the database.
* Designed and developed wrapper library in **C++** for new modules.
* Writing Complex **SQL** Queries and **PL/SQL** Procedures to Extract Data from various source Tables of Data Warehouse.
* Maintained physical database by monitoring performance, integrity and optimize SQL queries for maximum efficiency using SQL profiler.
* Used PL/SQL to create Packages, Functions, and Procedure.
* Fix bugs in **C/C++**: program crashes, memory leaks, performance bugs.
* Analyze requirements with Product Manager to plan for implementation within given time line.

**Environment: C, C++, MS Visual Studio, SQL, PL/SQL, Agile Methodologies.**