

Vishal Sharma

Python Developer

Email: Vibhu0891@gmail.com | Mobile No: +917065148868

SUMMARY

Around **5+ years** of experience as a Web/Application Developer and coding with analytical programming using **Python, Django**. To serve the organization with the best of my technical skills and abilities by utilizing my educational and professional knowledge and competencies acquired by me in my academic career and professional experience.

CORE COMPETENCIES

- Experienced with full software development life-cycle, architecting scalable platforms, object oriented Programming, database design and agile methodologies
- Strong experience using Web Services and API's in Python.
- Experience in using Design Patterns such as MVC, Singleton and frameworks such as Django.
- Proficient in SQL databases MySQL and MongoDB.
- Good knowledge in maintaining various version controls systems such as GIT, SVN.
- Experience in Application Development and Object Oriented Programming Analysis and Design (OOAD).
- Experience object oriented programming (OOP) concepts using Python.
- Experience in working with AWS (Amazon Web Services) cloud platform.
- Experienced in working with various Python Integrated Development Environments like PyCharm, Eclipse, and Sublime Text.
- Experience in creating initial website prototype from Django skeleton and building out Views, Templates using CSS for whole site following Django MVC architecture.
- Deep understanding of HTTP methods, RESTful architecture.
- Familiar with UNIX / Linux internals.
- Good Understanding of Caching Mechanism using Memcache.
- Strongly follow PEP-8 coding standard and test a program by running it across test cases to ensure validity and effectiveness of code using PyLint.
- Involved in Unit testing and Integration testing of the code using PyTest.
- Displayed and proved capability to learn any new technology and work on it.
- Hands-on experience in writing and reviewing requirements, architecture documents, test plans, design and maintaining documents, quality analysis and helping with the software release process.
- Ability to successfully multi-task and prioritize work.

PROFESSIONAL EXPERIENCE

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R Systems International – July 2019 –Present

R Systems International Ltd is one of the leading providers of outsourced product development and customer support services. The company is a leading global provider of IT solutions and Business Process Outsourcing (BPO) services. Their primary focus is to provide full service IT solutions, software engineering services, technical support, customer care and other IT enabled services to the high technology sector, independent software vendors (ISV's), banks, financial services companies, telecom, insurance and health care sector.

Key Deliverables:

- Ability to perform root cause analysis on all VMware products. E.g. ESX hosts, Virtual Centers, and Virtual Machines.
- Experience in maintaining and implementing VMware ESX (versions 3.x 4.x 5.x)
- Automated the VLAN, port group and Switches functionality.
- We have developed the VPN tunnel which talks with our application and call python and PowerShell scripts in private networks, with the help of VPN we have saved lots of time because prior our application waits for the health checks.
- Worked on the horizon Rest API's for desktop pools and summary of currently active users.
- Automated the users and groups creation in Active Directory by python and PowerShell.
- Integrated the UAG Servers in our framework.
- Developed python APIs to monitor CPU, Storage and Memory consumption per (host, VM, Cluster, datacenter, venter) level.
- Developed three jobs NXS-T, UAG, NSV which creates machines in Venter (RDS, Active Directory, UAG, Security, and Firewall).
- Automated the OU and Sub OU on Active directory.
- Reduced the time of job by applying multithreading and multiprocessing in python code.
- Upgraded the system and version of python from (2.14 to 3.6) and supporting libraries like Pymomi, VSphere.
- Developed many scripts vai PowerShell code for monitoring VM and hosts.
- Implemented the vCheck GitHub PowerShell code in our job for venter reports. It contains the data at vcenter level like alerts, datastore with vm alerts, CPU over usage etc.
- Proficient with performance tuning of Operating Systems, Applications, Databases, Storage, and Networking
- Experience in working with AWS (Amazon Web Services) cloud platform and DynamoDB.

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Mobile Programming India Pvt Ltd – July 24 – 18 July 2019

Mobile Programming is a service based company. They provide all possible IT services like quick Application design, Big data Technologies, Cloud Computing, IOT, Machine Learning, Progressive Web app.

Key Deliverables:

- Designed the Web application Using Python on Django Web Framework pattern to make it extensible and flexible.
- Used the Model View controller (MVC) framework to build modular and maintainable applications
- Building reusable code and libraries for future use.

- Developed scalable applications using Django framework.
- Build all database mapping classes using Django models with the help of ORM like SQLAlchemy.
- Used data structures like directories, tuples, object oriented class based inheritance features.
- Wrote and executed various MYSQL database queries from python using Python-MYSQL connector and MySQL DB package.
- Maintained and improved the security level of data.
- Responsible for security standard implementation and data protection.
- Utilized PyUnit, the Python unit test framework for testing the functionality of the application.
- Setting Images/Videos in the video by python Mocha API.
- Operated all the user side validation using JavaScript and AJAX.
- Profiled python code for optimization and memory management.
- Used memcache to avoid re-computing data or accessing.
- Responsible for debugging and troubleshooting the web application.
- Used SQS for batch-oriented processing like sending SMS/Email to 10K users and Bulk Report Download, Bulk Admit Card Download.
- Involved in entire lifecycle of the project.
- Experience in working with AWS (Amazon Web Services) cloud platform and DynamoDB.

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Snap-On Business Solutions *(Feb 23, 2015– July 23, 2018)*

Snap-on is a **(CMMI) Level 5** certified, global information technology company headquartered in Noida, India with offices in United States and Europe. The company deals in Automobile tools, parts etc.

Key Deliverables:

- Worked on window server virtual machine to run reporting scripts each day and make the reports available via http using an iis virtual directory.
- Create on-demand daily and weekly reports by invoking scripts with custom arguments and parameters to provide actionable data to the test owner.
- Managed datasets using Pandas data frames and mysql database queries from python using python-pyodbc connector package to retrieve information.
- Assist in software and hardware setup.
- Wrote programs for performance calculations using Numpy and SQLAlchemy.
- Used data structures like directories, tuples, object oriented class based inheritance features.
- Design, build, testing and maintenance of data integration / ETL processes.
- Experience with relational databases like DB2 and Oracle.
- Experience with data mapping analysis and design.
- Added several options to the application to choose algorithm for data and address generation.
- Develop scripts to automate the execution of ETL using shell scripts under Unix environment.
- Providing routine process/operational control reports and/or Controls Dashboard support.
- Help develop test cases and plans to complete the unit testing and support System testing.

Projects

- VMware Automation (end to end development on vcenter and vmc cloud).
- Virtual Reality, Video Editing, text extraction on images, 360 video insertion.
- IOT with AWS lambdas (“App for home automation”)
- Django Application development with MYSQL and Jenkins.
- Flask Application development.
- ETL and ODI tools (“end to end development form data fetching to data storing and manipulations) with oracle database.
- Speech to text and Text to Speech Implementation vai google apis.

EDUCATION

- Bachelor Degree in Computer Science (Venkateshwara Institute of Technology (Meerut), UP).