**Abhinav**   
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Sr. Python Developer

**Professional Summary:**

* 7 years of IT Experience in designing, developing, testing and implementing of various stand-alone and client-server architecture-based enterprise application software in **Python** on different domains.
* Skilled experience in **Python** with proven expertise in using new tools and technical developments
* Good experience in developing web applications implementing Model View Control architecture using Django**, Flask, Pyramid and Zope** Python web application frameworks.
* Experienced in working with various Python Integrated Development Environments like **NetBeans, PyCharm, PyScripter, Spyder, PyStudio, and Sublime Text.**
* Strong expertise in development of web based applications using **Python, Django, HTML, XML, Angular JS, CSS, DHTML, JavaScript, JSON and jQuery.**
* IOT product customization and communication with AWS Server.
* Good knowledge on front end frame works like **CSS Bootstrap.**
* Used PHP as an HTML embedded scripting language, in front end web development.
* Having experienced in Agile Methodologies, Scrum stories and sprints experience in a Python based environment, along with data analytics, data wrangling and Excel data extracts.
* Sound experience in Core **Java and Object-Oriented Programming** using concepts like Multi-Threading, Exception Handling and Collections.
* Experience with container service such as **Amazon EKS**, Google **Kubernetes** engine.
* Good knowledge of web services with protocols **SOAP, REST**.
* Debugging IoT device communication with various sensors using BLE and ANT+ protocols.
* Experienced in working with server-side technologies including databases, restful API and MVC design patterns.
* Special skills in development of effective, user-friendly web applications. Experienced in requirement gathering, Use case development, Business Process flow, Business Process Modelling: extensively used UML to develop various use cases, class diagrams and sequence diagrams.
* Designed and documented RESTful APIs for collection and retrieval of high volume IOT telemetry data.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Analysed and communicated security impact of new IoT devices to clients.
* Superior Troubleshooting and Technical support abilities with Migrations, Network connectivity and Security and Database applications.
* Knowledge about setting up Python REST API Frame work using Django.
* Having good knowledge in using NoSQL databases like **Apache Cassandra** (1.2, 2.0 and 2.1) and **MongoDB** (2.6, 2.4), **Orient DB.**
* Experience in using various version control systems like CVS, Git, GitHub and Amazon EC2 and deployment using Heroku.
* Experience in web scrapping/ Screen scrapping
* Experience in using the Python modules requests and Beautiful Soup.
* Has experience going to web page of the website, get the relevant data, and move forward to the next web page.
* Experience in importing the Beautiful Soup HTML parsing library and feeding it.
* Experience in creating tables and storing the scrapped data.
* Experience in saving scrapped data into structured formats like CSV, HTML, Excel
* Knowledge in developing Front-end Layouts navigations with JavaScript, Bootstrap, MVC frameworks such as AngularJS and ReactJS as a platform for web applications
* Proficient in managing the logical and physical or online backups on different production servers using automated shell scripts scheduled.
* Documentation of Architecture, Design and Operational procedures.
* Have worked on streaming data from twitter
* Proficient in writing **SQL** Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like **Oracle, DB2 and MySQL.**
* Good knowledge in working with application server- **Apache Tomcat** (6.0, 7.0, 8.0).
* Experience in working with Python ORM Libraries including **Django ORM**.
* Experience in Test Driven Development and Behaviour Driven Development methodologies for consulting firms and enterprise projects.
* Good idea about testing tools like **BugzillaandJIRA.**

**Technical Skills:**

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| **Frameworks** | Django, Zope, PyJamas, Jython, CSS Bootstrap |
| **Web Technologies** | HTML, CSS, DOM, SAX, Java Script, JQuery, AJAX, XML, AngularJS. |
| **Programming Languages** | Python, C, PERL, SQL and PL/SQL. |
| **J2EE Technologies** | JSP, Java Servlets, JNDI, JDBC and JMS. |
| **Version Control** | SVN, CVS, Git, GitHub. |
| **Analytic Tools** | JMP PRO, SAS, Tableau, UCI NET, Node XL |
| **Application servers** | Apache Tomcat, JBoss |
| **Databases** | Oracle (9i,10g, 11g), My SQL, Apache Cassandra, MongoDB |
| **IDE’s/ Development Tools** | NetBeans, Eclipse, PyCharm, PyScripter, PyStudio and Sublime Text. |
| **Operating Systems** | Windows, Red hat Linux 4.x/5.x/6.x, Ubuntu. |
| **Protocols** | TCP/IP, HTTP/HTTPS, SOAP, SMTP |
| **Deployment Tools** | Heroku, Amazon EC2 |
| **Testing Tools** | Bugzilla and JIRA. |

**Professional Experience:**

**Client: MasterCard, St Louis, MO Aug 2017 – Till date**

**Role: Python Developer**

**Responsibilities:**

* Automation of infrastructure using Terraform and Ansible.
* Implemented cloud infrastructure automation using internal web-services and distributed worker queues (celery).
* Worked on development of **internal testing tool framework** written in **Python**.
* Developed **GUI using Python and Django** for **dynamically displaying** the **test block documentation** and other features of **python code** using a web browser.
* Wrote **scripts in Python** for extracting data from **HTML file**.
* Effectively communicated with the external vendors to resolve queries.
* 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.
* Responsible for debugging the project monitored on **JIRA (Agile)**
* Developed software interfaces and performing unit testing of real-time embedded or application software.
* Wrote **Python scripts** to **parse JSON documents** and load the data in database.
* Used **Python**and**Django** to interface with the **jQuery UI** and manage the storage and deletion of content.
* Embedded AJAX in UI to update small portions of the web page avoiding the need to reload the entire page.
* Experience in developing modular software for embedded 16/32-bit microprocessors and controllers.
* Wrote Python code embedded with JSON and XML to produce HTTP GET request, parsing HTML data from websites.
* Developed entire frontend and backend modules using **Python on Django** including **Tasty pie** Web Framework using **Git.**
* Created database using MySQL, wrote several queries to extract data from database.
* Used embedded python to interface code like convert data values from C to Python; Perform a function call to a python interface routine using the converted values,
* Setup **automated cron jobs** to **upload data into database**, **generate graphs, bar charts**, **upload these charts** **to wiki** and **backup the database**.
* Developed **Merge jobs in Python** to extract and load data into **MySQL database**.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Architected and designed Rapid deployment method using Chef and Ansible to auto deploy servers as needed.
* Pulled data from twitter handle using Kafka producer written in python.
* Inserted the data in Kafka topic and made ready for consumption.
* Written Kafka consumer in python to fetch data from Kafka topics.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management (ansible).
* Extensive experience in scripting languages including Shell Scripting and Ruby Scripting.
* Developed multiple automation scripts using shell script
* Designed front end using **UI, HTML, Bootstrap, Node JS, underscore JS, Angular JS, CSS, and JavaScript.**
* Followed **AGILE development methodology** to develop the application.
* Used and customized apache server to for checking our developed project.
* Used **Test driven approach (TDD)** for developing services required for the application.
* Implemented **Integration test cases**
* Used **Git to resolve and coding** the work on **python and portlet**

**Environment:** Python 2.7, Django 1.4, HTML5, CSS, XML, Ansible, MySQL, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Mongo DB, T-SQL, JavaScript, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting.

**Client: BCBSIL, Chicago, IL May 2015 – July 2017**

**Role: 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 and PostgreSQL.
* 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.
* Managed large datasets using **Panda data frames** and **MySQL**.
* Used advanced packages in **AON PATHWISE** for performing unit test and deploying data models.
* 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 1.4, HTML5, CSS, XML, MySQL, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Mongo DB, T-SQL, JavaScript, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting.

**Client: Rockwell American, Phoenix, AZ July 2014–Apr 2015**

**Role: Python Developer**

**Responsibilities:**

* Developed web applications in **Django** Framework’s model view control (MVC) architecture.
* Exposure on Multi-Threading factory to distribute learning process back-testing and 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
* Developed test scripts for automation with **Selenium**.
* **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).**
* Tested 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
* Risk analysis for potential points 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.
* Managed large datasets using Panda data frames and MySQL.
* Extensively used python modules such as requests, urllib, urllib 2 for web crawling.
* Experience in creating, maintaining and modifying Maven build script and shell scripts.   
  Worked on continuous integration based on Maven with Jenkins.
* 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.
* 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, Angular.JS, Jira

**Client: CVS Caremark, Northbrook, IL Dec 2011 - Jun 2014**

**Role: Python Developer**

**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 Beautiful soup 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, SQL Alchemy).
* 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.
* Experience in writing the scripts in Perl and Shell Scripts for managing various enterprise applications.
* 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 2.7, Django 1.4, MySQL, Windows, Linux, HTML, CSS, JQuery, JavaScript, Apache, Linux, Quality Center