# PYTHON DEVELOPER

# Summary

* Around 6+ years of experience as a Developer and coding using Python, Django, Java, Spring
* Good Experience with Django, a high-level Python Web framework.
* Experienced with full Software Development Life Cycle (SDLC), architecting scalable platforms, object oriented programming, database design and agile methodologies.
* Proficient in developing web-based applications using Python 2.x/3.x , Django 1.x, PHP, Flask, Webapp2, Angular.js, VB, C++, XML, CSS, HTML, DHTML, JavaScript, JQuery, Bootstrap.
* Experienced in LAMP (Linux, Apache, MySQL, and Python) Architecture.
* Experienced in developing web-based applications using Python, Django, Java, XML, CSS, HTML, DHTML and JavaScript.
* Well versed with design and development of presentation layer for web applications using technologies like HTML, CSS, and JavaScript.
* Good experience with design, coding, debug operations, reporting and data analysis utilizing python and using python libraries to speed up development.
* Libraries used: Pandas data frame, network, Beautiful soup, NumPy, SciPy, Matplotlib, urlib2, JSON libraries and MySQL database for connectivity.
* Experienced in WAMP (Windows, Apache,MYSQL, Python/PHP) and LAMP (Linux, Apache, MySQL, Python/PHP) Architecture.
* 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 .Also Familiar with JSON based REST Web services and Amazon Web services.
* Experienced in developing Web Services with Python programming language & have Good experience in writing Sub Queries, stored procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL databases.
* Good in developing, implementing, and improving processes by bringing engineering, Operations, QA, and Product Management.
* Experienced with full software development, architecture scalable platforms, database design, etc.
* Excellent knowledge on Predictive Modeling using python and K-mean Clustering for Python Machine Language & have Experience in working with Python ORM Libraries including Django ORM.
* Experienced in designing web pages and Graphical user interfaces, front end layouts on the web by using HTML, DHTML, CSS, Bootstrap framework, PHP, XML, JavaScript, node JS and Angular JS.
* Developed Web-based applications using Python, Amazon Web Services, jQuery, CSS and Model View control frameworks like Django, Flask and JavaScript.
* Experienced in Object Oriented Programming (OOP) concept using Python, C++ and PHP & have Extensive experience in using Python/Perl to code and design various phases for data processing
* Created Secured Cloud infrastructure using (VPC) for Staging and Development environment on AWS.
* Developed Cloud Formation templates, also launched AWS Elastic Beanstalk for deploying, monitoring and scaling web applications using different platforms like Java, Docker, Python etc.
* Expertise in AWS Resources like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Formation, Cloud Watch, Security Groups.
* Experience in executing Organization DevOps methodology in different situations of LINUX and Windows servers alongside adopting cloud procedures based on Amazon Web Services.
* Involved in integrating the GIT into the Puppet to ensure the integrity of applications by creating Production, Development, Test, and Release Branches. Hands on experience with continuous integration and automation using Jenkins.
* Experience with Design, code, and debug operations, reporting, data analysis and web applications utilizing Python. Hands on experience with version control tools such as SVN, JIRA, GitHub, and GitLab.
* Experience with Web Development, Web Services, flask and the Django framework.
* Experience in working on Application Servers like WebSphere, WebLogic, Tomcat, Web Servers like Apache Server, NGINX and Integrated Development Environments like PyCharm, Eclipse, MyEclipse, JDeveloper and RAD.
* Experience configuring and developing with different Database servers including MySQL, MSSQL, noSQL databases like Cassandra and Mongo DB & have Experience in using UNIX shell Scripts for automating batch programs.
* Proficient with Apache Web Server 2.0, MySQL , CVS, UNIX Shell Script, CSS, XML, Firefox 3.5, IE 6 Browser Compatibility Issues, IIS and Linux.

# Technical Skills

* **Languages:** Python, C++, Java, SQL, PL/SQL.
* **IDE s:** PyCharm , Eclipse, MS Visual Studio , SOAP UI.
* **Web Technologies/other:** Django, Flask, Servlets, JSP, AJAX, HTML5, CSS3, XML/XSD, X Path, XSLT, Java Script, jQuery, Web Services (Soap, Restful), Amazon Webservices like EC2, S3, ELB, EBS, SES, Selenium, PyUnit.
* **Databases:** SQL Server, MySQL, PostgreSQL, SQLite, Cassandra.
* **Frameworks:** Django, Flask, Bootstrap , pandas .
* **WebServers:** JBoss 4.0.5, BEA Web Logic, Web Sphere, Apache Tomcat 5.5/6.0
* **Version Controls:** SVN, VSS, CVS, Git, Github.
* **Operating Systems:** MS Windows 9X/NT/XP/2003, Linux/Unix, Sun Solaris, OS X
* **Building& Design Tools:** ANT, MAVEN, Gulp, UML, IBM Rational Rose, Ansible, JIRA, GNU Debugger
* **Methodologies:** Agile, Scrum, Waterfall

# Experience

## **Sr. Python developer**

## International Medical Corps, Los Angeles, CA

March 2018 - Present

Roles and Responsibilities:

* Used Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in-line with Agile Software Development methodologies.
* Developed micro services API'S for an individual module and exposed the results in JSON format using Bottle framework.
* Involved in development of testing frameworks, used selenium web driver for Automation.
* Worked with Docker Container, have setup an environment and used accordingly. Also Wrote Python code embedded with JSON and XML to produce HTTP GET and POST requests for parsing HTML data from website.
* Used JIRA for issue tracking and bug tracking for each individual sprint and used confluence to create design documents.
* Worked on Automated Test tools and frameworks using Python.
* Installed Hadoop, Map Reduce, HDFS, AWS and developed multiple MapReduce jobs in PIG and Hive for data cleaning and pre-processing.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information. Involved in the Web/Application development using Python 3.5, HTML5, CSS3, AJAX, JSON and JQuery.
* Developed and tested many features for dashboard using Python, Java, Bootstrap, CSS, JavaScript and JQuery . Also Generated Python Django forms to record data of online users and used PyTest for writing test cases. Implemented and modified various SQL queries and Functions, Cursors and Triggers as per the client requirements.
* Clean data and processed third party spending data into maneuverable deliverables within specific format with Excel macros and python libraries such as NumPy, pandas , SQLAlchemy and Matplotlib.
* Worked on React JS components, Forms, Events, Keys, Router, plus Redux, Animations and Flux concept .Used Pandas as API to put the data as time series and tabular format for manipulation and retrieval of data.
* Helped with the migration from the old server to Jira database (Matching Fields) with Python scripts for transferring and verifying the information. Analyzed Format data using Machine Learning algorithm by Python Scikit-Learn.
* 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. Write Python scripts to parse JSON documents and load the data in database. Also Generated various capacity planning reports (graphical) using Python packages like Numpy, Matplotlib.
* Analyzed various logs that are been generating and predicting/forecasting next occurrence of event with various Python libraries. Developed single page application by using Angular JS backed by MongoDB and NodeJS.
* Design and maintain databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL.
* Managed code versioning with GitHub, Bit Bucket and deployment to staging and production servers and implement MVC architecture in developing the web application with the help of Django framework.
* Used Celery as task queue and RabbitMQ, Redis as messaging broker to execute asynchronous tasks.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture & Developed remote integration with third party platforms by using RESTful web services and Successful implementation of Apache Spark and Spark Streaming applications for large scale data.
* Built various graphs for business decision making using Python Matplotlib library.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format
* Export Test case Scripts and modified the selenium scripts and executed in Selenium environment.  Designed Puppet Modules to manage configurations and automate installation process and developed automation scripting in Python using Puppet to deploy and manage Java applications across Linux servers.
* Developed entire frontend and backend modules using Python on Django Web Framework. Done Scraping website using Python Beautiful Soup, and then parsed it with XML.
* Worked on outputting the parsed data as JSON/BSON and stored into MongoDB. Also Used NLTK and Stanford NLP to process text data and created offline intelligence.
* Worked on querying data from MongoDB and use them as input for the machine learning models.
* Used AWS for application deployment and configuration. Wrote UNIX shell scripting for automation.
* Developed views and templates with Django view controller and template Language to create a user-friendly website interface. Used JavaScript and JSON to update a portion of a webpage.
* Developed consumer-based features using Django, HTML and Test-Driven Development (TDD). Increased the speed of pre-existing search indexes through Django ORM optimizations.
* Developed module to build Django ORM queries that can pre-load data to greatly reduce the number of databases queries needed to retrieve the same amount of data.

## **Python developer**

## Trimble Inc, Westminster, CO

April 2016 – Feb 2018

Responsibilities:

* Created a Python /Django based web application using Python scripting for data processing, MySQL for the database, and HTML/CSS/JQuery and High Charts for data visualization of the served pages.
* Developed web-based applications using Python, Django, XML, CSS, HTML, DHTML, JavaScript and JQuery.
* Built client pages using HTML, JSP, XML to interact with users, and the business logic is implemented using Servlets and Java Beans.
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Publish and Consume Contract First SOAP web services using spring & Restful Web services using Jersey.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.
* Worked on JMS components for asynchronous messaging. Worked mainly on Core Java, C++, STL, data structures, UNIX, multithreading.
* Used Python, Perl, JQuery, JavaScript and JSON at the front end.  Gained good working experience on DevOps Environment by working on various technologies/applications like Ansible, Chef, GIT, SVN, Jenkins, Docker.
* Created Python and Bash tools to increase efficiency of application system and operations, data conversion scripts, AMQP/RabbitMQ, REST, JSON, and CRUD scripts for API Integration.
* Developed and implemented the MVC Architectural Pattern using Struts Framework including JSP, Servlets and Action classes.
* Developed Python based API (Restful Web Service) to track the events and perform analysis using Django.
* Recording of Scripts Web Services HTML using Vugen and SoapUI and script validation through co correlations, parameterizations and other methods.
* Involved in development using C++, bug fixing and unit testing of the Layout commands.
* Implemented code MVC2 framework using JSP's JavaBeans & Servlets. Utilized Python libraries Numpy, Twisted and Matpoltlib.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and JQuery.
* Worked on various environment Python, MYSQL, Apache, CSS, git, DHTML, HTML, JavaScript, Shell Scripts.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/ Packages using Chef as well as AWS for EC2/S3&ELB with Chef Cookbooks.
* Creating Cloud Formation templates in JSON format and deploy stack of AWS resources like EC2 instances, get code from S3 and deploy it, creation of security group and so on, as defined in the template.
* Developing and testing cookbooks, keeping the chef repository synchronized with the version control system.
* Implemented Chef Recipes for Deployment on build on internal Data Centre Servers. Also, re-used and modified same Chef Recipes to create a Deployment directly into Amazon EC2 instances.
* Configuring organizational policy including defining the roles and environments and ensuring that the critical data is stored in the data bags.
* Used Python Boto3 to write scripts to automate launch, starting and stopping of EC2 instances and taking snapshots of the servers.
* Also used python scripts for security purposes, AWS IAM, AWS lambda functions and deploying the applications through elastic beanstalk.
* Used GO scripts for uploading a file to S3 and deploying them and creating GO serverless application and deploying it to AWS lambda & Worked with development leadership to create project roadmaps.
* Develop estimates for your own assigned work and complete assigned software development, testing and/or maintenance tasks.
* Establish network management information systems including monitoring, alerting, and visual dashboards.
* Work with other software designers to develop a "plug and play" framework for hardware compatibility.
* Participate with the IBM Technical account manager in performing joint account planning.
* Take a hands-on approach while participating in all phases of the development process (Agile) with a constant focus on improving process and the overall quality.
* Develop, coordinate and execute product lifecycles.
* Used Apache Tomcat web server to handle HTTP request and deploy Java Servlets and JSP's.

## **Python developer**

## Valocis Technologies - Dallas, TX

October 2014 – March 2016

Roles & Responsibilities:

* The system is a full micro services architecture written in Python utilizing distributed message passing via Kafka with JSON as data exchange formats.
* Created 6 micro services that has the capability to transfer the input files to machine readable format and pass through respective payment channels.
* Development of platform components using object-oriented perl and unix shell scripting.
* Managed, developed, and designed a dashboard control panel for customers and Administrators using Django, HTML, CSS, JavaScript, Bootstrap, jQuery and RESTAPI calls.
* Did full-page caching well using Varnish and could handle massive traffic without breaking a sweat.
* Experienced in taking advantage of Nginx in combination with Apache by using it as a reverse proxy.
* Supported development of Web portals, completed Database Modelling in PostgreSQL, front end and Outstanding expertise and research experience on statistical machine learning, data mining, and information retrieval
* Debugging the application and following messages in log files, to figure out the error if existing.
* Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL Alchemy, and PostgreSQL.
* Created Highly Available Environments using Auto-Scaling, Load Balancers, and SQS.
* Maintained and monitored frameworks like Django, flask
* Developed monitoring application which captures the error related data and store it in database.
* Reverse engineer and re-implement legacy back-end software into Python with minimal downtime.
* Work closely with project leads to learn about the Azure services, environment deployment, and integration with tooling & Used GitHub as a version control.
* Worked on UNIX environment.
* Written complex SQL queries for data validation based on ETL mapping specifications.
* Optimized system performance and managed the API lifecycle.
* Extensively worked on writing UNIX shell scripts for scheduling the sessions for my testing process of ETL.

## **Junior Python developer**

## Whole Foods - Austin, TX

June 2012 – September 2014

Responsibilities:

* Wrote script or program to automate analysis tools to streamlining the evaluation of initial data for integrity.
* Using Python package created an interface automate import and exporting drawing and extracting standard data for manufacturing purpose.
* Built application and program to streamline the cavity development and process and generate documentation from the design and via versa.
* Used Python Flask framework to build modular & maintainable applications.
* Automated data movements using Python scripts. Involved in splitting, validating and processing of files.
* Created core Python API which will be using among multiple modules.
* Participated in developing web application UI using HTML, CSS, JavaScript.
* Uploaded statistics to MySQL for analysis and logging.
* Developed complex SQL queries for testing the database functionality.
* Used UNIX server for application deployment and configuration.
* Wrote shell scripting for automation.
* Designed database schema design and defined relationships between tables.
* Provided technical assistance for maintenance, integration and testing of software solutions during development and release processes.
* Created unit test/regression test framework for working/new code.
* Controlled backend logic using Python.
* Designed and developed a web-based client using Servlets, JSP, Tag Libraries, Java Script, HTML and XML using Struts Framework.
* Used SOASuite ESB / Mediators components for the validation, filter and transformation of the document data from one xml schema to another.
* Used SOAP Technology for exchanging the XML application using HTTP.
* Used SVN for version control of the code and configuration file.
* Extensively used MAVEN as build tool.
* Configured JMS and EJB on Web Logic Server in Eclipse environment.

# Education

## RGPV, Bhopal

Bachelor’s in Computer Science,

2012