Harsha K

**Python Developer**

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Chicago, IL

# **professaional summary**

* Seeking a Python Developer position in the IT industry that will leverage my Technical Skills  
  (Python Expertise) to support organizations in successfully leading their strategic initiatives.
* 8+ years of experience as a Web/Application Developer and coding with analytical programming using Python, Django, C++.
* Experience of software development in Python (libraries used: libraries- Beautiful Soup, numpy, scipy, matplotlib, python-twitter, Pandas data frame, network, urllib2, MySQLdb for database connectivity) and IDEs - sublime text, Spyder, pycharm, emacs.
* Experience object oriented programming (OOP) concepts using Python, Django and Linux.
* Experienced in developing web-based applications using Python, Django, PHP, C++, XML, CSS 5 HTML, DHTML, JavaScript and Jquery.
* Expertise in python scripting with focus on Develops tools, CI/CD and AWS Cloud Architecture and hands on Engineering.
* Extensive experience working in SaaS, IaaS, PaaS.
* Experience in developing applications using Spring Framework 3.2.2, worked on different spring modules like core container module, application context module, Aspect oriented module (AOP Module), JDBC Module, ORM Module and web module.
* Experience in working with Python ORM Libraries including Django ORM. Have good knowledge on Project management tools JIRA, Redmine and Bugzilla.
* Experienced with data modelling of traditional RDBMS and NoSQL databases.
* 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.
* Experienced in installing, configuring, modifying, testing and deploying applications with Apache.
* Experience in using Microsoft Visual SourceSafe, SVN for Version Controlling.
* Proficient in Front end development experience using HTML, XML, CSS 5, JQuery, JSON and Javascript, CSS 5, Bootstrap.
* 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.
* Hands on working with Python latest versions 3.4.3 and 2.7.10,SVN, Git, JIRA, Bugzilla, Axosoft, Amazon EC2/S3.
* Good experience in Python, Django, Zope, Pyramid Framework.
* Proficient in SQL databases MS SQL, My SQL, Oracle and no-SQL databases Mongo DB, Cassandra.
* Experienced in developing Web Services with Python programming language.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database.
* Experience in developing web-based applications using Python 2.7/2.6, Django 1.4/1.3, PHP, Angular JS, VB, C++, XML, CSS, HTML, DHTML, JavaScript and JQuery.
* Knowledge of the Software Development Life Cycle (SDLC), Agile and Waterfall Methodologies.
* Expertize in designing, developing middleware components for software in C/C++ using STL,
* Multithreading, data structures, and design patterns.
* Well versed in writing unit test cases and selenium test cases.
* Understanding of Python best Practices (PEP-8).
* Wrote AJAX framework to transform Datasets and Datatables into HTTP-serializable JSON strings.
* Experienced in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers.
* Extensively used UNIX shell Scripts for automating batch programs.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL database.
* Expertise in client scripting language and server side scripting languages like JavaScript, JQuery, JSON, DOJO, bootstrap, Node.js, Angular.js, backbone.js, Require.js.
* Excellent experience with Python development under Linux OS (Debian, Ubuntu, SUSE Linux, Red Hat Linux, Fedora).
* Worked on Celery Task queue and service broker using RabbitMQ.
* Experience with Jsp Servlets, Web Services (SOAP, REST) and Tomcat.
* Expertise in Object Oriented Analysis and Design (OOAD), OOPS using Unified Modeling Language (UML), Design Patterns, MVC Frameworks.
* Having experience in loading CSV, JSON and Paraquet files in Apache Spark using Data Frame API.
* Experience in OTC derivatives such as Swaps and also in ETD.Capable of demonstrating efficiency in developing and implementing EJB's.
* Extensive experience in developing enterprise web applications using Python, PHP4 and PHP5,Flask, Jinja2, Django, HTML, CSS, JavaScript, C, C++, JQuery, Ajax, MySQL.

# **technical skills**

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| **Programming Languages** | Python, C, C++, Java |
| **Technologies** | HTML, XHTML, CSS, JavaScript, jQuery, AJAX, JSON |
| **Frameworks** | Django, Flask, Pyramid, Struts |
| **Version** | Control Git, GitHub, SVN, CVS |
| **Databases** | Oracle ,SQL ,PL/SQL ,MySQL ,PostgreSQL,DB2,MongoDB |
| **IDE's/Development Tools** | PyCharm, Eclipse, Sublime Text, Net Beans |
| **Web Services** | AWS, Restful Web Services, SOAP |
| **Operating Systems** | UNIX, Linux, Windows, Mac OS |
| **Methodologies** | Agile, Scrum and Waterfall |
| **Servers** | Web Sphere, Web Logic, JBoss, Apache Tomcat |

# **Work experience**

**Python Developer** October 2016 to Present

**Client: HCL America**

Chicago, IL

**Responsibilities:**

* Participated in all phases of the System Development Life Cycle Analysis (SDLC) and responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Used Python to write data into JSON files for testing Django Websites. Created scripts for data modelling and data import and export.
* Used jQuery and Ajax calls for transmitting JSON data objects between frontend and controllers.
* Used object-relational mapped (ORM) to automate the transfer of data stored in relational databases tables into objects.
* Used PyQuery for selecting DOM elements when parsing HTML.
* Developed web applications in Django Framework's model view control (MVC) architecture.
* Worked on converting Hive/SQL queries into Spark transformations using Spark RDDs, Python, and OOP with Python. Worked on developing and executing shell scripts to automate the jobs.
* Worked extensively on Spark Streaming, Spark SQL, PySpark and Hadoop/HDFS API doing MapReduce.
* Familiarity with development best practices such as code reviews, unit testing, system integration testing (SIT) and user acceptance testing (UAT).
* Experience working in WAMP (Windows, Apache, MYSQL, and Python/PHP) and LAMP (Linux, Apache, MySQL, and Python/PHP) Architecture.
* 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.
* Developed frontend and backend modules using Python on Django including Tastypie Web Framework using Git
* Implemented a wide variety of statistical and graphical techniques, including linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, and others using R and its libraries.
* Successfully migrated the Django database from SQLite to MySQL to PostgreSQL with complete data integrity and Designed, developed and deployed CSV Parsing using the big data approach on AWS EC2.
* Knowledge of cross-browser and cross-platform development of HTML and CSS based websites in Windows like IE 6, IE 7, IE 8 and FF.
* Responsible for writing python scripts to scrape web data for data usage/collection using Beautiful SOUP, Scrappy, and Selenium.
* Build and release software baselines, code merges, branch and label creation in Subversion/GIT and interfaced between development and infrastructure.
* Developing Python Framework using Django to perform scan software unit monitoring.
* Designed the front end of the application using Python.
* Design and development of user interfaces and client displays using Java Script, JSP, CSS and troubleshoot various issues in Python code and fix them with code enhancements- code used various python libraries such as PyJamas and Jython.
* Built various graphs for business decision making using Python matplotlib library.
* Developed and tested many features for dashboard using Python, Bootstrap, CSS, and JavaScript.
* Worked on developing internal testing tools which were written in Python.
* Developed the front-end featuring rich web interface using HTML5, CSS3, JavaScript and used JQuery framework for UI centric AJAX behaviour.
* Developed server side application and server side validations using Django framework.
* Performed validations for input fields making use of mainly Active Records.
* Implemented MVC architecture in developing the web application with the help of Django framework.
* Associated with working cloud computing platforms like Open stack.
* Built various graphs for business decision making using Python Matplotlib library.
* Fetched twitter feeds for certain important keyword using python-twitter library.
* Implemented a continuous Delivery Pipeline with Docker, Jenkins and GitHub to build a new Docker.
* Implemented advanced procedures like text analytics and processing using the in-memory computing capabilities like Apache Spark written in Scala.
* Created PDF reports using Golang and XML documents to send it to all customers at the end of month with international language support.
* Programmed the invoicing web application using Golang and PostgreSQL as the backend.
* Experience in Wire shark, live http headers, and Fiddler debugging proxy to debug the Flash object and help the developer create a functional component.
* Built enterprise wide DNS historical data trending analysis tools in Go (Golang), Languages with REST API for user queries as micro service.

**Environment:** Python 3.4/2.7, Java 1.7, Django 1.9/1.7, HTML5, CSS3, XML, JSON, JavaScript, Angular JS, Backbone JS, JQuery, CSS Bootstrap, Amazon s3, Jenkins, Mongo DB, Postgre SQL, Elastic search, Git, Linux.

**Software Developer - Python, Linux** April 2015 to September 2016

**Client: WalMart**

Sunnyvale, CA

**Responsibilities:**

* Participate in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users
* Worked with team of developers on Python applications for RISK management
* Developed Python application for Google Analytics aggregation and reporting
* Worked on Python Open stack API's,used Python scripts to update content in the database and manipulate files
* Implemented machine learning schemes using Python libraries scikit-learn and SciPy.
* Experience in MVC architecture using Django for web based application in OOP concepts.
* Worked on several python packages like Matpoltlib, cx\_Freeze, Pillow, Numpy, sockets.
* Worked on ETL Processing which consists of data transformation, data sourcing and also mapping, Conversion and loading.
* Worked on design and development of Unix Shell Scripting as a part of the ETL Process to automate the process of loading.
* Worked on ETL tasks like pulling, pushing data from and too various servers.
* Tested and evaluated results for inclusion into software product.
* Designed and deployed machine learning solutions in Python to classify millions of previously unclassified Twitter users into core data product
* Used Pandas API to put the data as time series and tabular form for east timestamp data manipulation and retrieval to handle time series data and do data manipulation
* Used Pandas library for statistical Analysis using R Studio
* Automating Email Process, Downloading and uploading the files through Perl Scripting.
* Worked on front end frame works like CSS, Bootstrap for development of Web application.
* Developed views and templates with Python and Django view controller and templating language to create a user-friendly interface using MVC architecture.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Integrate the dynamic pages with Angular JS and j-query to make the pages dynamic
* Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met
* Used Machine learning techniques like unsupervised Classification, optimization and prediction.
* Worked on Python open stack API's
* Using Subversion version control tool to coordinate team-development.
* Responsible for debugging and troubleshooting the web application.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS and JavaScript, also used Bootstrap as a mechanism to manage and organize the html page layout
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL db package
* Associated with working cloud computing platforms like open stack.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Worked on development of SQL and stored procedures on MYSQL
* Engaged in Design, Development, Deployment, Testing and Implementation.
* Responsible for debugging the project monitored on JIRA (Agile)
* 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.

**Environment:** Python 2.7,.NET, PyQuery, MVW, HTML5, Shell Scripting, JSON, Apache Web Server, SQL, UNIX, Windows, and Python libraries.

**Python developer**  August 2014 to March 2015

**Client: Cadence**

San Jose, CA

**Responsibilities:**

* Providing daily reports to the development team and the manager, participate in both the design and development phase.
* Participated in Daily stand-up meetings and provided status on work progress
* Strong understanding of MySQL database. Wring Queries on Existing schema for Analysis.
* Created database using MySQL and wrote several queries to extract data from database.
* Designed the front end of the application using Python, HTML, CSS, AJAX, JSON and JQuery. Worked on backend of the application.
* Developed and tested many features in an agile environment using Python, Django, HTML5, CSS, JavaScript, and Bootstrap.
* Implemented Angular JS controllers to maintain each view data.
* Involved in writing application level code to interact with APIs, Web Services using AJAX, JSON, XML, Angular JS and Node JS.
* Performed testing using Django's Test Module.
* Rewrite existing Python/Django modules to deliver certain format of data.
* Working in team of developers to build and deploy Flask, Linux, AWS.
* Involved in maintaining and editing Python scripts for application deployment automation
* Working on various Integrated Development Environments like PyCharm, Anaconda Spyder.
* Created, activated and programmed in Anaconda environment. Wrote programs for performance calculations using NumPy
* Gathering requirements and translating the business details into Technical design.
* Implemented responsive user interface and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript, and JQuery.
* Developed views and templates with Python and Django have to create a user-friendly website interface.
* Utilized Python libraries like wxPython, NumPy, SciPy, Web2py.
* Designed Restful Web services using FLASK, with emphasis on improved Security for the service using FLASK-HTTPAuth with HTTPS.
* Wrote and executed various MySQL database queries from python using Python-MySQL connector and MySQL DB package.
* Development of Python APIs to dump the array structures in the Processor at the failure point for debugging.
* Creating Restful web services for Catalog and Pricing with Django MVT, MySQL, and MongoDB.
* Collaborated within a team using an agile development workflow and widely-accepted collaboration practices using Git.
* Developed a fully automated continuous integration system using Git, Jenkins, MySQL and custom tools developed in Python and Bash.
* Implemented Multithreading module and complex networking operations like race route, SMTP mail server and web server Using Python.
* Written test cases using PyUnit and Selenium Automation testing for better manipulation of test scripts.
* Worked as part of an Agile/Scrum based development team and exposed to TDD approach in developing applications.
* Wrote Python scripts to parse XML documents and load the data in database.
* Analyze the data using the Daily reports and work based on the requirement and targets, which discussed in the stand-up meetings.
* Creation of python scripts for data access and analysis to aid in process and system monitoring.

**Environment:** Python, Django, CherryPy, HTML5, CSS, Bootstrap, JSON, JavaScript, AJAX, Restful web service, MySQL, SQLite, Cassandra, AWS (EC2, S3), PyUnit, Karma, Jenkins, Selenium.

**Python Developer**  October 2013 to July 2014

**Client: Kaiser Permanente**

Pleasanton, CA

**Responsibilities:**

* Implemented user interface guidelines and standards throughout development and maintenance of website.
* Devised Python based API (Restful Web Service) to track events and perform analysis using Django.
* Interacted with Business Analysts and Users in requirement gathering, built complex queries using SQL and wrote stored procedures using PL/SQL.
* Designed and developed Oracle PL/SQL Procedures, Functions, and Database Triggers and involved in creating and updating Packages to meet business requirements.
* Involved in Python OOD code for quality, logging, monitoring, and debugging code optimization.
* Built a Python/Django based web application using Python scripting for data processing, MySQL for database, and HTML/CSS/JQuery and High Charts for data visualization of served pages.
* Developed UDF's with python and implemented graphs utilizing python with big data analytics. Used Python Library Beautiful Soup for web scrapping.
* Wrote Python scripts to parse XML documents and load data in database.
* Used Python and Django to interface with the jQuery UI and manage the storage and deletion of content.
* Expertise in troubleshooting backup failures due to network, hardware, and vendor software.
* Technical Director and SME (subject matter expert) for Administrators in a Global Backup environment on multiple platforms.
* Design, develop, test, deploy and maintain website and leveraged Django Database API's to access database objects.
* Review and disposition of Destructive Physical Analysis (DPA) reports and Failure Analyses reports.
* Generated Tables, Graphs and Listings for inclusion in Clinical study reports and regulatory submission and participated in preparing study results as well as ISS and ISE for FDA submissions using SAS.
* Executed various MYSQL database queries from python operating Python-MySQL connector and MySQL db package.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design and used Git to resolve and coding work on python and portlet.
* Perform penetration testing such as Cross-site scripting, SQL Injection and exploitation to protect our web applications.
* Used Python and Django to interface with the JQuery UI and manage the storage and deletion of content.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Implemented and generated department metrics of client requests in form of weekly, monthly, and annual status updates and top security issues.
* Implemented business metrics to measure progress on compliance information collection.
* Involved in debugging the applications monitored on JIRA using agile methodology.
* Managed deployment automation using Chef, Custom Puppet modules and created test scripts using Selenium Web driver using Page Object Model.

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

**Python Developer**  October 2011 to May 2012

**Client: North Face holdings India Pvt. Ltd.**

Hyderabad, India

**Responsibilities:**

* Engaged with the advancement of front end of the application utilizing Python 2.7, HTML5, CSS3, AJAX, JSON and JQuery and took a shot at backend of the application, mostly utilizing Active Records.
* Developed powerful pages utilizing Python, Django Frameworks.
* Developed observing and notice apparatuses utilizing Python.
* Improved the application by outlining and creating it utilizing HTML and JavaScript.
* Used information structures like registries, tuples, protest arranged class based legacy highlights for making complex calculations of systems.
* Created MySQL back-end for information passage from Flash. Helped the Flash engineer send the right information through question strings.
* Experience in spry condition utilizing a CI/CD demonstrates philosophy.
* Involved in building database Model, APIs and Views using python, so as to fabricate an intelligent electronic arrangement.
* Generated Python Django Forms to record information of online clients.
* Created Data tables using PyQt to show patient and approach data and include, erase, refresh understanding records.
* Wrote a Python module to interface and view the status of an Apache Cassandra case.
* Developed MVC model supplanting of current item with Django.
* Developed Python OO Design code for assembling quality, checking, logging, and investigating code enhancement.
* Responsible for examination, outline, improvement and mix of Market Risk applications with FLEX/JAVA/PYTHON.
* Used Python to put information into JSON records for testing Django Websites.
* Involved in building database Model, APIs and Views using Python, keeping in mind the end goal to manufacture an intuitive online arrangement.
* Wrote Python schedules to sign into the sites and bring information for chose alternatives.

**Environment:** Python 2.7, Django, Beautiful soup, HTML5, AWS, CSS/CSS3, Bootstrap, XML, JSON, JavaScript, JQuery, Restful Web administrations, Apache, Linux, Git, Amazon s3, Jenkins, MySQL, Mongo DB, T-SQL, Eclipse.

**Python developer** June 2010 to September 2011

**Client: Big Biz Solution**

Hyderabad, India

**Responsibilities:**

* Analyze, design, develop, test, deploy and maintain the website.
* Involved in entire SDLC process.
* Designed the User Interface using HTML, XHTML, CSS, JavaScript, and AJAX for the website.
* Frontend and Backend modules were created using Python on Django framework.
* Developed Python code for instantiating multi-threaded application and running with other applications.
* Designed and developed Database management using MYSQL.
* Developed Python modules to extract data from MYSQL database.
* Installation and setting up Python/Django/MySQL in AWS and EC2 cloud platform.
* Built and maintained remote Apache tomcat server and MySQL database on AWS.
* Wrote and executed various MySQL database queries from Python-MySQL connector and MySQL dB package.
* Build all database mapping classes using Django models and Cassandra.
* Created Unit test framework for new codes.
* Skilled in using collections in Python for manipulating and looping through different user defined objects.
* Responsible for debugging and troubleshooting issues.
* Maintaining the scripts using the SVN version Control.
* Maintaining customer database using MS EXCEL.

**Environment:** Python 2.7, Django, HTML, XHTML, CSS, Java Script, AJAX, MYSQL, Beautiful Soup, SOAP, Heroku, GIT, SVN, Shell Scripting.

**Jr. Python Developer**  July 2009 to May 2010

**Client: Verizon Data Services**

Hyderabad, India

**Responsibilities:**

* Used SDLC process and used PHP to develop website functionality.
* Designed and developed the UI of the website using HTML, NodeJS, XHTML, AJAX, CSS and JavaScript.
* Developed entire frontend and backend modules using Python on Django Web Framework on MySQL
* Used Django APIs for database access
* Designed and developed data management system using MySQL. Built application logic using Python 2.7.
* Used Django APIs for database access.
* Used Python to extract weekly hotel availability information from XML files using underscore JS.
* Parsed XML file using Python to extract data from database
* Participated in requirement gathering and worked closely with the architect in designing and modelling.
* Worked on development of SQL and stored procedures, trigger and function on MYSQL.
* Developed shopping cart for Library and integrated web services to access the payment (E-commerce).
* Designed and developed a horizontally scalable APIs using Python Flask.
* Designed Cassandra schema for the APIs
* Java implementation on given project
* Developed shopping cart for Library and integrated web services to access the payment.
* Used Php language on lamp server to develop page.
* Developed dynamic interaction page on .net MS visual basic-2014, using SQL developer tools.

**Environment:** Python 2.6/2.7, JavaScript, Django Framework 1.3, SQL, MySQL, LAMP, JQuery, Adobe Dreamweaver, Apache web server, PHP, Lamp, underscore JS. SQL developer tool.