**VASANTH KUMAR**

**Phone: 929 360 0133**

**Email: pat@6com.us**

**PROFESSIONAL SUMMARY:**

Overall 8 years of industrial experience as professional developer and has more than 4 year's of experience in Designing, Developing, Deploying and maintaining web application based on Django - Python platforms.

• More than 2 years of experience in developing Web Applications using Django and Flask inclusive of experience in UI using JavaScript, AngularJS and React-Redux.

• Experience in application development using PYTHON, Django, HTML5, CSS, JavaScript, jQuery, MySQL, PostgreSQL and SQLite.

• Designing and developing full-stack applications across multiple platforms using modern industry-adopted languages and frameworks.

• Worked on a new web app built in React and Redux using ES6.

• Developed entire frontend and backend modules using Python on Django Web Framework with GIT.

• Good experience of software development in Python (libraries used: Beautiful Soup, NumPy, SciPy, matplotlib, Pandas data frame, urllib2, MySQL dB for database connectivity) and IDEs - sublime text, PyCharm, Microsoft Visual Code.

• Strong knowledge of Object-Oriented Design and Programming concepts and Experience in Object Oriented Programming (OOP) concepts using Python, C++.

• Experienced in Working on Big Data Integration and Analytics based on Hadoop, Spark and No-SQL databases like HBase and MongoDB.

• Hands-on experience in Agile Methodologies, Scrum stories and sprints experience in a Python based environment.

• Experience in developing Web Services (REST API) with Python programming language.

• Experience in using Design Patterns such as MVC, Singleton and frameworks such as DJANGO.

• Basic knowledge on Rest API, JSON Parsing, jQuery and Angular JS

• Experience in Shell Scripting, SQL Server, Unix and Linux.

• Developed consumer-based features and applications using Python, Django, HTML, Behavior Driven Development (BDD) and pair-based programming.

• Good knowledge of Apache server, Apache Server Tomcat, and Web logic in application servers.

• Experience in designing the automation framework using Shell scripting.

• Experience in Amazon Web Services (AWS) cloud platform like EC2, Virtual private clouds (VPCs), Storage models (EBS, S3, instance storage), Elastic Load Balancers (ELBs).

• Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.

Wrote and executed various MYSQL database queries from python using python-MySQL connector and MySQL dB package.

• Used python scripts to parse XML and JSON reports and load the information in database.

• Designed and developed presentation layer for web applications using technologies like HTML, CSS, and JavaScript.

• Experienced in writing PERL script to extract data from text files, web automation and converting the file formats.

• Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on SQL and PostgreSQL database.

• Experience with continuous integration and automation using Jenkins

• Experience with Unit testing/ Test driven Development (TDD), Load Testing.

• Used Python library Beautiful Soup for webscrapping.

• Experienced in Agile Methodologies, Scrum stories and Sprints experience in a Python based environment.

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| TECHNICAL SKILLS: |
| Programming Languages : Python 2.7/2.4, Java, Shell Script, Perl, SQL |
| Framework : Django 1.3/1.4 |
| Front End: HTML, JavaScript, CSS and XML |
| Databases : MySQL, SQL Server 2008, MongoDB, PostgreSQL, Amazon AWS cloud, Amazon Cloud EC2, Elastic Bean, Amazon S3 |
| API Services: REST, Web Services, HTTP Services, SOAP |
| Appl/Web servers: Apache, NGIX |
| Methodologie : Agile, XP, SCRUM, Waterfall |
| Version Control : Git, Mercurial, Perforce, SVN, CVS |
| Scripting Language : JavaScript, Shell Scripts, AJAX |
| Operating System : Linux, MAC OS, Windows |

**Role: Sr Python Developer**

CVS HEALTH CARE (Buffalo grove, IL) (July 2017-Present)

Responsibilities:

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.

• Responsible for setting up Python REST API framework using Django.

• Developed views and templates with Python and Django view controller and templating language to create a user-friendly website interface.

• Developed web applications in Django Framework model view control (MVC) architecture.

• 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.

• Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web based solution.

• Thorough knowledge in various front end tools like HTML, CSS, JavaScript, XML, JQuery, Angularjs, and AJAX. Managed large datasets using Panda data frames and MySQL.

• Used object-relational mapper (ORM) to automate the transfer of data stored in relational databases tables into objects.

• Used Python based GUI components for the front-end functionality such as selection criteria.

• Used Amazon Web Services (AWS) for improved efficiency of storage and fast access.

• Added support for Amazon AWS and RDS to host static/media files and the database into Amazon Cloud.

• Used PyQuery for selecting DOM elements when parsing HTML.

• Created Business Logic using Python to create Planning and Tracking functions.

• Created UI Screens for initiation and validation.

• Developed multi-threaded standalone app in Python and PHP to view performance.

• Performed data extraction and manipulation over large relational datasets using SQL, Python, and other analytical tools.

• Used Python libraries and SQL queries/subqueries to create several datasets which produced statistics, tables, figures, charts and graphs.

• Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.

• Involved in writing stored procedures using MySQL.

• Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.

Environment: Python, Django, Go language, Shell Scripting, AWS, Pandas, PyQt, PyQuery, Flash, DOM, JSON, PHP, HTML, CSS, AJAX, JavaScript, Bootstrap, Apache Web Server, MYSQL, GitHub, LINUX.

**Role : Python Developer**

International Medical Corps, Los Angeles, CA  (2015/june-2017JUNE)

Responsibilities:

\* Worked on predictive analytics use-cases using R language.

\* Use Python unit and functional testing modules such as unit test, unittest2, mock, and custom frameworks in-line with Agile Software Development methodologies.

\* Added licensing feature for 3 products CVU'S, CCLEAR, CSTOR from scratch by going through most modules of code runs at backend and created html pages to view the EULA (End User License Agreement).

\* 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.

\* 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.

\* Installed Hadoop, Map Reduce, HDFS, AWS and developed multiple MapReduce jobs in PIG and Hive for data cleaning and pre-processing.

\* Manage 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.

\* Develop and tested many features for dashboard using Python, Java, Bootstrap, CSS, JavaScript and Jquery.

\* GeneratePython 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, SQLAlchemy and matplotlib.

\* 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.

\* Analyze Format data using Machine Learning algorithm by Python Scikit-Learn.

\* Experience in python, Jupyter, Scientific computing stack (NumPy, SciPy, panda sand matplotlib).

\* Perform 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.

\* Generating various capacity planning reports (graphical) using Python packages like Numpy, matplotlib.

\* Analyzing 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.

\* Manage 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.

\* Use Celery as task queue and RabbitMQ, Redis as messaging broker to execute asynchronous tasks.

\* Design and manage API system deployment using fast http server and Amazon AWS architecture.

\* Develop 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 Pythonmat plotlib 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.

\* Developed entire frontend and backend modules using Python on Django Web Framework.

\* Scraping website using Python Beautiful Soup, and then parsed it with XML.

\* Outputting the parsed data as JSON/BSON and stored into MongoDB.

\* Used NLTK and StanfordNLP to process text data and created offline intelligence.

\* Querying data from MongoDB and use them as input for the machine learning models.

\* Using 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.

\* Develop consumer-based features using Django, HTML and Test-Driven Development (TDD).

\* Increase the speed of pre-existing search indexes through Django ORM optimizations.

\* Develop 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.

Environment:

Python, Django, HTML5/CSS, PostgreSQL, MS SQL Server 2013, MySQL, JavaScript, Jupyter Notebook, VIM, Pycharm, Shell Scripting, Angular.JS, JIRA.

**Role : Python developer**

(Q2eBanking    Austin, TX ) (2013/May-2015/May)

Responsibilities:

• Used Django Database API's to access database objects.

• Used Query and Ajax calls for transmitting JSON data objects between frontend and controllers.

• Involved in building database Model, APIs and Views utilizing python, in order to build an interactive web

based solution.

• Used python based GUI components for the front-end functionality such as selection criteria.

• Created test harness to enable comprehensive testing utilizing python.

• Used Amazon Web Services (AWS) for improved efficiency of storage and fast access.

• Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.

• Involved in front end and utilized Bootstrap and Angular.js for page design.

• Created Data tables utilizing PyQt to display customer and policy information and add, delete, update

customer records.

• Used PyQuery for selecting particular DOM elements when parsing HTML.

• Used Wireshark, live http headers, and Fiddler debugging proxy to debug the Flash object and help the developer create a functional component.

• Used Pandas API to put the data as time series and tabular format for east timestamp data manipulationand retrieval.

• Having very good experience with BIG DATA.

• Created Bu siness Logic using pythonto create Planning and Tracking functions.

• Created UI Screens for initiation and validation.

• Worked on UI using HTML5, CSS3 and Java Scripts.

• Developed multi-threaded standalone app in python and PHP to view performance.

• Used Pandas library for statistical Analysis.

• Developed tools using python, Shell scripting, XML to automate some of the menial tasks.

• Working in team of Architects and Developers to build and deploy python Flask Peewee Linux AWS.

• Version control using GITHub.

• Involved in writing stored procedures using MySQL.

• Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.

• Responsible for gathering requirements, system analysis, design, development, testing and deployment.

• 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.

• Developed Business Logic using pythonon Django Web Framework.

• Developed views and templates with pythonand Django's view controller and templating language to create.

• Responsible for creating company's internal platform called DCAE by using python to develop and test the components.

• Worked with various Python libraries such as Six, Click, Pandas and Matplotlib for analysis and manipulation of data.

• Used Click package to create the command line interface.

• Designed Docker proof-of-concept using Hashicorp's Nomad and Consul.

• Used Consul for Service Discovery and to create Key-Value pair.

• Wrote Python scripts to parse JSON files and load the data into the Consul.

• Used Python IDE Pycharm for developing the code and performing unit test.

• Involved in development using Python, bug fixing.

• Developed web-based applications using Python, Django, XML, CSS, HTML, DHTML.

• Developed entire frontend and backend modules using Python on Django Web Framework.

• Used AWS for application deployment and configuration.

• Responsible for Design and maintenance of databases using Python. Developed Python based APIs by using Flask, SQL Alchemy and PostgreSQL.

• Worked on HTML5, CSS3, JavaScript, AngularJS, Node.JS, Git, REST API, intellij IDEA.

• Development of real-time multi-tasking systems using Python.

• Created data access modules in python.

• Designed, developed, implemented, and maintained solutions for using Git and GitHub for microservice and continuous deployment.

• Involved in Developing a Restful API'S service using Python Flask framework.

Environment:

Python, Django, Shell Scripting, AWS, Pandas, PyQt, PyQuery, Wire shark, Flash, DOM, JSON, PHP, HTML5, CSS3, AJAX, JavaScript, Angular.js, Bootstrap, Apache Web Server, MYSQL, GitHub, LINUX.

**Role: Python developer**  (June 2011 to April 2013)

Verizon NC

Responsibilities:

Involved in different layers such as Front and Back end.

• Developing Web Applications with W3C, XHTML, HTML5, PHP, CSS3 standards and using Python, Django.

• Worked on Payment Processing which involves monitoring payments and provide required solutions.

• Involved in the complete software life cycle (SDLC) to develop the web application.

• Coding application using Python, Django in End-to-End Web application development using MVC architecture while front-end is built on CSS3 and HTML5.

• Used Test Driven Approach for developing the application and implemented the unit tests using Python Unit Test framework called PyUnit.

• Designed Database Model for the entire application Creating tables, Views and Stored procedures.

• Implementation of client side validations using JQuery, Angular JS and ASP.NET MVC Validation implemented at Controller level.

• Designed and developed various abstract classes, interfaces, classes to construct the business logic using C# .NET.

• Develop consumer-based features and applications using Python, Django, HTML, Behaviour Drive Development (BDD) and pair-based programming.

• Performed Unit testing, Integration Testing, GUI and web application testing using Spec.

• Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and jQuery.

• Experience with advanced CSS concepts and building table-free layouts.

• Worked on front-endframeworks like CSS Bootstrap for development of Web applications.

• Experienced in writing SQL Queries and implementing stored procedures, functions, packages, tables, views, Cursors, triggers.

• Created Database Schema for MySQL Database and involved in designing ER-Diagrams using Microsoft Visio.

• Worked on Restful API's to access the third party data for the internal analysis and statistical representation of that data.

• Worked on Pandas to import the data, Sort and plot the statistical data using histograms.

• Worked on Python Scripts to create Excel and CSV files for documenting the Statistical Reports.

• Used Pandas for Statistical Analysis in the application and Numpy for the advance math functionalities.

• Experience with Python Libraries such as HTTPLib2, Urllib.

• Used GitHub for Version Control System and deployed the project code into Heroku.

• Worked on XML documents based on XML Schema definition (XSD) with python scripts to load the data to database.

• Designed the architecture of the hardware environments and methodology of the code.

• Used JavaScript for Dynamic Page Functionality, popup screens and the user entry validations.

**Environment:**

Python, Django 1.7, HTML5, CSS3, Ruby, JIRA, TDD, AJAX, JQuery, JavaScript, AWS, MySQL, Angular JS, Linux, Apache, XML, Git.

**Python Developer, Hyderabad, India**

**Eclature Technologies,** (May 2010 to May 2011)

Responsibilities:

\* Wrote Python routines to log into the websites and fetch data for selected options.

\* Implemented code in Python to retrieve and manipulate data.

\* Used Python modules such as requests, urllib, and 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 using Python.

\* Web-services backend development using Python (CherryPy, Django, SQL Alchemy).

\* Worked on resulting reports of the application and Tableau reports.

\* Participated in developing the company's internal framework on Python. This framework became a basement for the quick service's development.

\* Worked on HTML5, CSS3, JavaScript, AngularJS, Node.JS, Git, REST API, MongoDB.

\* Design and setting up of the environment of MongoDB with shards and replica sets (Dev/Test and productions).

\* Designed and developed components using Python with Django framework.

\* Private VPN using Ubuntu, Python, Django, CherryPy, Bootstrap, jQuery.

\* Created a Python-based GUI application for Freight Tracking and processing.

\* Experience in designing and developing applications in Spark using Scala.

\* Wrote scripts in Python for extracting data from HTML file.

\* Used Python and Django creating graphics, XML processing of documents, data exchange and business logic implementation between servers.

\* Developed rich user interface using CSS, HTML, JavaScript, and jQuery.

\* .Participated in the complete SDLC process.

\* Worked on automating the repetitive tasks using Ansible.

\* Extracting acting data from the database using SAS/Access, SAS SQL procedures and create SAS data sets.

\* Created and modified PL/SQL scripts for data conversions.

\* 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 the database.

\* Communicated effectively with the external vendors to resolve queries.

\* Held meetings with client and worked all alone for the entire project with limited help from the client.

**Environment** : Python, Django, MySQL, Windows, Linux, HTML, CSS, jQuery, JavaScript, Apache, Linux, Quality Centre, Ansible, PL/SQL.

**Skills :**

JAVASCRIPT (6years), XML (5years), SQL (6 years), CSS (5 years), REST (4 years), Mysql (Less than 1 year), html (Less than 1 year), Python(8years) , Django (6years)