**Sr. Python Developer**

**Vincent K**

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**Professional Summary:**

* Over 8 years of experience as a Web/Application Developer and coding with analytical programming using Python, Django, C++.
* Experience in object oriented programming (OOP) concepts using Python, C++ and PHP.
* Experienced in developing web-based applications using Python, Django, PHP, C++, XML, HTML, DHTML, CSS, JavaScript and jQuery.
* Expert knowledge of Object Oriented Design and Programming concepts.
* Good experience of software development in Python (libraries used: libraries- Beautiful Soup, Numpy, Scipy, Matplotlib, python-twitter, Pandas data frame, network, urllib2, MySQL for database connectivity) and IDEs -sublime text, Spyder, pycharm, pytesting, Eclipse, emacs.
* Experience in using Design Patterns such as MVC, Singleton and frameworks such as DJANGO. Experienced in developing Web Services with Python programming language.
* Good knowledge on NoSQL databases like Cassandra, MongoDB.
* Experience in Python OpenStack API'S. Scaling up projects using python tools like multithreading, celery.
* Experience in using Version Control Systems like GIT, SVN and CVS. Good experience in Linux Bash scripting and following PEP Guidelines in Python.
* Extensively worked on Hudson/Jenkins, Build Forge for continuous integration and for End to End automation for all build and deployments.
* Performed integration of Code Quality Analysis Techniques like Check styles, Find Bugs and PMD with CI tool Hudson/Jenkins.
* Worked with Chef to aid with deployment process and migrating in house systems to Amazon Cloud Services.
* Experience in writing Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database. Good experience in Shell Scripting, SQL Server, UNIX and Linux.
* Developed web applications and RESTful web services and APIs using Python Flask, Django and PHP.
* Wrote AJAX framework to transform Datasets and Data tables into HTTP-serializable JSON strings.
* Experienced in Agile and waterfall methodologies with high quality deliverables delivered on-time.
* Good Knowledge of using IDE Tools like Eclipse, NetBeans, Android Studio, Visual Studio, IDLE.
* Experience with Unit testing/ Test driven Development (TDD), Load Testing.
* Experienced in building tools such as ANT, MAVEN, and JENKINS.
* Experience in maintaining all the tools like Bamboo, Bit Bucket, Confluence, JIRA, and GIT.
* Experience in deploying applications in heterogeneous Application Servers TOMCAT, Web Logic and Oracle Application. Server.
* Good experience in Amazon AWS concepts like EMR, S3 and EC2 web services which provides fast and efficient processing of Big Data.
* Good experience with cloud platforms like Amazon AWS and Google App Engine..
* Experience in administering and supporting the CM tools including Subversion and CVS on UNIX environments.
* Configured AWS Identity and Access Management (IAM) Groups and Users for improved login authentication.
* Good idea using debugging tools like Bugzilla, and JIRA.
* Proficient in designing Model, View, Database Architecture for a given requirement or problem statement irrespective of underlying technology.
* Ability to learn and adapt quickly to the emerging new technologies and paradigms.

**Technical Skills:**

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| **Languages** | C, C++, Python, JavaScript, PHP, XML, JAVA, SQL |
| **SCM Tools** | Subversion, Perforce, Jenkins/Hudson, Sonar, Jira, TFS, Confluence, Clear Case, AccuRev, GIT, GitHub. |
| **Build Tools** | GNU, Apache Ant, Apache Maven, Buck, Bit-Bake, Boot, Grunt. |
| **Operating Systems** | UNIX, Linux, Solaris, Windows, DOS, VMware |
| **Python Web Frameworks** | Django, Pyramid, Flask, web2Py. |
| **Database** | Postgre SQL, MS Access, SQL Server, MYSQL and Sybase, Oracle, DB2, JDBC, ODBC |
| **Application Servers** | Web logic, JBoss, IBM WebSphere, Apache tomcat5.5, IIS |
| **Development IDE** | PyCharm, Pydev Ecllipse, Vim, Net beans, MS Visio, Sublime Text, Notepad++ |
| **Methodologies** | Agile, Scrum, Waterfall |

**PROFESSIONAL EXPERIENCE**

**Client: Genfare, Elk Grove Village, IL**

**July 2016-Present**

**Role: Sr. Python Developer**

**Responsibilities**:

* Complete development and expertise in Rest framework in Django.
* Involved in Developing a Restful service using Python Django framework.
* Developed entire frontend and backend modules using Python on Django Web Framework with GIT.
* Designing Celery and multithreading for scheduling the tasks and multiple activities.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.
* Expertise in code review for the code developed by team and suggesting the relevant and appropriate changes.
* Dealing with client regarding the requirements of the projects and taking care of production issues and bugs.
* Experience in various modules like rest framework, mock, freezgun, Numpy etc.;
* Perform Jenkins administration, updating plugins, setting up new projects and debugging build problems.
* Developed unit and functional tests in Python and Ruby.
* Configured AWS Identity and Access Management (IAM) Groups and Users for improved login authentication.
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as Amazon Web Services (AWS).
* Develop Interactive front end to visualize data from backend and represent in graphical manner to better understanding for user.
* Front End coding using Angular 2.0 using modules like angular material, angular aria, angular paging, angular google maps, etc.
* Experienced in hand-coding HTML5, CSS3, JavaScript, and other UI technologies.
* Experienced in web applications development using Django/Python, .NET/C#, Flask/Python, and Node.js, Angular.js, ember.js, jQuery, Ajax while using HTML/CSS/JS for server-side rendered application.
* Developed the entire project using PostgreSQL. Migrating from other databases to PostgreSQL.
* Expertise in developing web-based open stack applications using Python and Django for large dataset analysis.
* 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.
* Front-end web development using HTML/CSS, JQuery, Bootstrap as well as back-end development using SQL.
* Used Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.
* Created Branches, Labels and performed Merges in Stash and GIT.
* Administering Code Repositories in SVN and Bit bucket.
* Involved in the complete Software Development Life Cycle (SDLC) to develop the application.
* Followed AGILE development methodology to develop the application.
* Used Test driven approach (TDD) for developing services required for the application. Implemented Integration test cases.

**Environment**: Python 2.7/3.5, PyQuery, HTML5, CSS3, Angular 2.0, Shell Scripting, JSON, Rest, Apache Web Server, Django, Celery, Flash, SQL, UNIX, Windows, PostgreSQL, and python libraries such as Numpy, SQLAlchemy, AWS etc.

**Client: Nielsen, Oldsmar, FL**

**Dec2015 – June2016**

**Role: Sr. Python Developer**

**Responsibilities**:

* Involved in Developing a Restful service using Python Django framework.
* Developed entire frontend and backend modules using Python on Django Web Framework with GIT.
* Designing Celery and multithreading for scheduling the tasks and multiple activities.
* Designed and managed API system deployment using fast http server and Amazon AWS architecture.
* Perform Jenkins administration, updating plugins, setting up new projects and debugging build problems.
* Using ANT, Puppet/ Chef Scripts with Ivy to build the application and deploy.
* Using Chef and AWS allowed me to reduce costs for the department and eliminate unwarranted resources. Automated provisioning of cloud infrastructure with Chef.
* Configured AWS Identity and Access Management (IAM) Groups and Users for improved login authentication.
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as Amazon Web Services (AWS).
* Develop Interactive front end to visualize data from backend and represent in graphical manner to batter understanding for user.
* Experienced in hand-coding HTML5, CSS3, JavaScript, and other UI technologies.
* Experience with JavaScript Frameworks Ext JS, AngularJS, jQuery
* Experienced in web applications development using Django/Python, .NET/C#, Flask/Python, and Node.js, Angular.js, ember.js, jQuery, Ajax while using HTML/CSS/JS for server-side rendered application.
* Expertise in developing web-based open stack applications using Python and Django for large dataset analysis.
* 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.
* Experience in report writing using SQL Server Reporting Services (SSRS) and in creating various types of reports like table, matrix, and chart report, web reporting by customizing URL Access.
* Provide high-level technical support and administration for GIS-based routing software.
* Ensure data integrity, performing extensive quality control checks of GIS data and non-spatial databases
* Front-end web development using HTML/CSS, JQuery, Bootstrap as well as back-end development using Golang and SQL.
* Designing and tightly integrating Flash into the CMS with the use of FlashVars stored in the Django models. Also created XML with Django to be used by the Flash.
* Used Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.
* Responsible for all Public (AWS) and Private(OpenStack/VMWare/DCOS/Mesos/Marathon) cloud infrastructure.
* Supported development team with deployment workflow and continuous integration using Gitlab, GitLab CI, Rundeck, Docker and SaltStack provisioning.
* Evaluated and tuned data model by running endurance tests using JMeter, Cassandra Stress Tool and OpsCenter.
* Writing bash shell scripts on local setups to automate jobs
* Designed front end using UI, HTML, CSS, and JavaScript.
* Involved in the Complete Software development life cycle (SDLC) to develop the application.

**Environment**: Python 2.7, PyQt, .NET, PyQuery, MVW, HTML5, CSS3, DOM, Angular.js, Shell Scripting, JSON, Rest, Apache Web Server, Django, Celery, Flash, SQL, UNIX, Windows, PostgreSQL, and python libraries such as Numpy, SQLAlchemy, Android OS Android 1.5 to Android 6.0 etc.

**Client: Verizon Business, Ashburn, VA**

**Oct. 2012-Nov. 2015**

**Role: Sr. Python Developer**

**Responsibilities:**

* Worked with the Stakeholders, gathered requirements developed high level design documents.
* Have used Python libraries like NumPy/ SciPy, Pandas for market analysis and done some machine learning using Python.
* Analyzed various logs that are been generated and used various Python libraries to predict/forecast next occurrence of event with various Python libraries.
* Used Django framework in developing web applications to implement the model view control architecture (MVC).
* Refactored and extended large existing Django/Python code base, reducing the number of lines in code and duplication significantly.
* Wrote Sub Queries, Stored Procedures, Triggers, Cursors, and Functions on MySQL and PostgreSQL database.
* Query Optimization through MYSQL server tools for quick response time.
* Designed and Developed DB2 SQL Procedures and UNIX Shell Scripts for Data Import/Export and Conversions.
* Wrote Python scripts to parse JSON documents and load the data in database and also used python scripts to update content in the database and manipulate files.
* Responsible to set up REST API frame work using Django, Flask.
* Developed, designed, managed dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL API calls.
* Performed some operations, visualization on Oracle DB using libraries like Ox oracle, MatPlotlib, Pandas.
* Build back-end application with Python / Django, Worked on Dockers, Celery, and Jenkins.
* Developed GUI using webapp2 for dynamically displaying the test block documentation and other features of Python code using a web browser.
* Used Python based GUI components for the front end functionality such as selection criteria and developed a GUI for a Java script product.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.

**Environment:** Python 2.7, NumPy, SkiPy, Dockers, Pandas, C++, JSON, Oracle DB, MySQL, DB2, PL/SQL, Linux, HTML, XHTML, CSS, AJAX, JavaScript, Apache Web Server, Django 1.4

**Client: Reliable Soft, India**

**Jan 2012-Sept 2012**

**Role: Python Developer**

**Responsibilities**:

* Involved in reviewing and understanding the Business requirements.
* Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Wrote scripts to Import and Export data to CSV, EXCEL formats from different environments using Python and made a Celery action using REST API call.
* Designed the user interactive web pages as the front-end part of the web application using various web technologies like HTML, JavaScript, Angular JS, JQuery and implemented CSS framework Bootstrap for better appearance and feel.
* Developed remote integration with third party platforms by using RESTful web services.
* Developed web services that make database calls for inserts, updates, and select queries.
* Developed Unit, Integration and Performance Test Cases using Junit, Selenium and Rational Function Tester.
* Improved code reuse and performance by making effective use of various design patterns.
* Used Python library BeautifulSoup for webscrapping.ss.
* Fetched twitter feeds for certain important keyword using python-twitter library.
* Managed large datasets using Panda data frames and SQL.
* Wrote and executed various MYSQL database queries from python using Python-MySQL connector and MySQL dB package.
* Deployed the project into Heroku using GIT version control system.
* Developed methods for Create, Read, Update and Delete (CRUD) in Active Record.
* Used Django evolution and manual SQL modifications able to modify Django models while retaining all data, while site was in production mode.
* Proficient with Java and Android SDK version Android 1.5 to Android 7.0 (Gingerbread, Honey comb, Ice cream sandwich, Jellybean, Kit Kat, Lollipop, Marshmallow and Nougat).
* Expertise in creating and developing applications for android operating system using Android Studio, Eclipse IDE, SQLite, Java, XML, Android SDK and ADT plugin.
* Scripted simulation hardware for testing using the Simics simulator.
* Execute Validation Process through SIMICS.
* Worked on Angular JS to augment browser applications with MVC capability.

**Environment**: Python, Celery, mod python, Angular, JQuery, JavaScript, AJAX, HTML/XHTML, XML, MsSQL server, T-SQL, Jasper, GIT, Reports, RESTful, Linux, Android OS Android 1.5 to Android 6.0

**Client: InfoTech, Hyderabad, India**

**June 2010 - Dec 2011**

**Role: Software Developer**

**Responsibilities:**

* Involved in development of Javaconcepts like Collections, Exception Handling, Multi-Threading.
* Worked on MVC pattern, using variousframeworks.
* Worked on WebSphere as application deployment servers.
* Adopted agile methods for development & delivery of the solution and participated in complete life cycle of the project (SDLC).
* Designed the Database, written triggers and stored procedures.
* Developed screens based onJQuery to dynamically generate HTML ad display data to the client side.
* Written Struts services and DAOS in the service layer for SQL data retrieval operations using JDBC.
* Demonstrated Experience and advocate for test-driven development.
* Worked on JavaScript frame work to augment browser based applications with MVC capability.
* Worked on front-end and back-end application development. Have upgraded additional functionalities and services with the use cases provided.
* Involved in development of various controller classes as a part of MVC framework.
* Worked in referential data service module to interface with various databases using JDBC.
* Implemented REST and SOAP based web services and published using JAX-WS.
* Worked on Database Schemas, HTML and XML services.
* Worked on Oracle Database to store and retrieve information using SQL Developer.
* Worked on Eclipse IDE’s for build, debugging and deploy it using Apache Tomcat.
* Developed Build Script using MAVEN. Involved in unit testing and run test cases.

**Environment**: Java 1.6, 1.7, Java EE 6, JavaScript, JQuery, Struts, Eclipse, TOMCAT, SQL Developer, Oracle Database 11g, JDBC, Template, WebSphere, SOAP UI, Maven, REST, Windows.