**Rajkumar**

**Python/Django Developer**

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**Professional Summary**

* 5+years of experience in Analysis, Design, Development and Implementation of various web, stand-alone, client-server applications using **Python** and **Django**.
* Expertise in Object Oriented concepts **like Creating Classes, Inheritance, Constructors,Polymorphism,Encapsulation, Overloading and Overriding**.
* Experienced in developing apps using **Django Framework**.
* Have work experience with various Python Integrated Development Environments like **PyCharm, Sublime, Eclipse, Spyder** and **NetBeans.**
* Expertise in handling Django **ORM** and **SQLACHEMY**.
* Experience in MVC frameworks like **Django, Angular JS,Java Script, jQuery**and **Node.JS.**
* Installed various packages in python using **pip** and easy **install**.
* Experienced in using Python packages like **Numpy**,**SciPy**,**Pandas** and **Pickle.**
* Experience in implementation of Python web frameworks like **Django** and **Flask.**
* Experienced in developing User Interface using **HTML/HTML5, CSS/CSS3, JavaScript, jQuery, JSON, AJAX, XML** and **Bootstrap.**
* Actively participated in all phases of **Software Development Life Cycle.**
* Experienced in developing applications using **Agile Methodologies, WaterfallMethodology**and **Scrum stories** in a python based environment.
* Experienced in relational databases like **Oracle SQL, MySQL and MS SQL.**
* Experience of **NoSQL databases** -**HBase, Cassandra, Dynamo DB, Redis and MongoDB**.
* Have experience in **AWS (Amazon Web Services).**
* Setup and build **AWS** cloud infrastructure various resources like **EC2, S3, VPC, RDS, ELB, Cloud Formation, Cloud Watch, SNS.**
* Experience in writing**SQL, Sub Queries, Stored Procedures, Triggers, Cursors**and **Functions.**
* Executed **MYSQL** database queries from python using **Python-MySQL** connector and **MySQL dB** package to retrieve information.
* Experience in working with different operating systems like **LINUX, UNIX** and **WINDOWS.**
* Created complex **scripts** using **shell scripting** and **python**.
* Wrote **Python scripts** to parse **XML/JSON** documents and load the data in database.
* Experience in handling**REST and SOAP Web Services.**
* Knowledge of Servers **Apache Tomcat** and **Web Logic**.
* Experience on working with complex **List Comprehensions** and python inbuilt functionssuch as **Map, Filter** and **Lambda.**
* Experience in using various version control systems like **Git, GitHub** and **SVN**.
* Hands on Experience in writing code using**Java, C and C++.**
* Having knowledge on **Object Oriented Concepts** in **Java** and **C++.**
* Hands on experience of **Java** and **C++** projects in IDE tools like **Eclipse**and **Turbo C++.**
* Experience in deploying applications by using **Jenkins** that provides Continuous Integration and Continuous Deployment.
* Involved in **Unit testing** and **Integration testing**.
* Skilled in debugging/troubleshooting issues in complex applications.
* Followed the best practice of Python such as **PEP-8**.
* Have **Python Certification** in **Coursera**.
* Certified as an **Oracle Database SQL Expert.**

**Technical Skills**

**Programming Skills** Python, C, C++andJava.

**Web Development Skills** HTML5, CSS3, JavaScript, JSON, jQuery, AJAX, Node JS, Bootstrap.

**Frameworks** Django, spring, Angular JS, PSEandFlask.

**IDE(s)** PyCharm, Sublime, Eclipse, Spyder and NetBeans.

**Database** Oracle SQL,SQLite, MySQL, PL/SQL, PostgreSQL.

**NO SQL Database**Mongo DB, Dynamo DB, Cassandra and Redis.

**Operating Systems**  LINUX, UNIX and WINDOWS.

**Cloud Technology** AWS.

**Container Platform**Docker and ECS

**Monitoring Tools** CloudWatch and ElasticSearch.

**AWS Services**EC2, ELB, EBS, S3, VPC, RDS, Cloud Formation, SNS, SQS.

**Web Services** REST and SOAP.

**Network Protocols**TCP/IP, HTTP, DHCP, SNMP, SMPT.

**Servers** Apache Tomcat and Web Logic.

**Version Control Tools**Git, GitHub and SVN.

**Development Process**Waterfall, Agile and Scrum.

**Bug Tracking Tool**  JIRA.

**Deployment Tool**  Heroku and Jenkins.

**Professional Experience**

**Role: Python / Django Developer Jan 2017– Present**

**Boston Medical Center, Boston, MA**.

**Responsibilities:**

* Designed front end and backend of the application utilizing**Python** on **Django Web Framework.**
* For the development of the user interface of the website used **HTML, CSS, Java Script** and **AJAX**
* Experience in developing views and templates with Python and **Django's** view controller and templating language to create a user-friendly website interface.
* To update a portion of a webpage used **JavaScript** and **JSON.**
* Expertise in developing consumer based features and applications with**Python, Django, HTML**, Behavior Driven Development (**BDD**) and pair based programming.
* Modify the existing **Python/Django** modules to deliver certain format of data.
* Have work knowledge on **JIRA**(Agile) for the bug tracking of the project.
* Written**Python** scripts to parse **JSON** documents and load the data in database.
* The data manipulations on the client side is done by using jQuery.
* Setup and build **AWS** cloud infrastructure various resources like **EC2, S3, VPC, RDS, ELB,Cloud Formation, CloudWatch, SNS.**
* Created **CloudFormation** template to build a repeatable process to stand up various application deployment environments in **AWS**.
* For NO SQL Database queries used **Dynamo DB.**
* For the development of the web applications utilized **CSS** and **Bootstrap.**
* To share the information across the applications used **pickle/unpickle** in python.
* Created complex **scripts** using **shell scripting** and **python**.
* Utilized Python libraries like **Numpy** and **matplotlib** for generating graphical reports.
* Experienced with**GIT** version control and deployed the project to **Heroku.**
* Worked on the development of SQL and stored procedures for normalization and renormalization in **MYSQL**.
* Build **SQL** queries for performing various CRUD operations like **create**, **update**, **read** and **delete**.
* Executed**MYSQL** database queries from python using **Python-MySQL** connector and **MySQL dB** package to retrieve information.
* Skilled in using **Collections** in Python for manipulating and looping through different user defined objects.
* Involved in Design, Development, Deployment, Testing, Implementation of the application.
* Implemented the application in **Unix**environment and comfortable with all its commands.

**Environment: Python, Django, HTML5,CSS, JavaScript, AJAX, JSON, AWS, EC2, Cloud Formation, CloudWatch, SNS, MySQL, Dynamo DB, JIRA, jQuery, Bootstrap, SQLite, MS SQL Server, Git, GitHub, Unixand Shell Scripting.**

**Role: Python/Django Developer Feb 2016 – Dec 2016**

**Cerner, Kansas City, MO.**

**Responsibilities:**

* Developed and maintained a **content management system** built from initial stage.
* Handled development and management of front end user interfaces with help of **HTML, CSS, jQuery and JavaScript.**
* Worked on Django for web application development.
* Experienced in developing a portal to manage and entities in a content management system using **Python** and **Django.**
* CMS is the backend application for a consumer-facing website.
* CMS involved ingesting data from heterogeneous sources, producing directly renderable data as a **RESTful**service.
* CMS application was an internal application, used by subject matter experts (**SME**) for curation of data for accuracy.
* Interacted regularly with SMEs to understand requirements and incorporate them into the application.
* Used **AWSlambda** to run servers without managing them and to trigger to run code by **S3** and **SNS**.
* Involved in **AWS EC2/VPC/S3/SQS/SNS** based on automation Python, Bash Scripts.
* Utilized NO SQL database **Mongo DB** in this project.
* Wrote **Python scripts** to parse JSON documents and load the data in database.
* Worked on **Virtualenv** for sandboxing and application isolation.
* For Text Search in the application used **Haystack.**
* Module installation and Dependency Management is done by **pip**.
* UI interactions is done with the help of **jQuery**.
* Worked on **Ajax** for Asynchronous server calls.
* Implemented the application in a **Linux**environment.
* Utilized **SQLite** database for development and **SQL** server for production.
* Written**Scripts**to establish continuous workflows from different teams providing data.
* Utilized **GIT** for Source code control and **JIRA** for Bug tracking.
* For Documentation used **Confluence.**
* Collaborated with other developers to handle complicated issues related with deployment of Django based applications.

**Environment:Python, Django, HTML, CSS, JavaScript, AJAX,AWS, Lambda, EC2, S3, SQS, SNS, VPC, JIRA, Mongo DB,jQuery, SQLite, SQL Server, GitHub, PostgreSQL,Haystack,Virtualenv,pip, GIT, RESTful, Confluence and Linux.**

**Cenvien Technologies, Hyderabad, India Feb 2014 – Dec 2015 Role: Python/Django Developer**

**Responsibilities:**

* Analyzed the **Business Requirement Documents** and made the **Technical Specification Documents.**
* In order to prevent, detect and claim the duplicate member entries implemented business logic in Python.
* Re-designed various modules for executing changes and made efficient system.
* Created **Map Reduce** programs in Python to reconcile the existing member history and new files.
* Developed dynamic web pages to view the reports generated utilizing **Django Framework.**
* Developed entire frontend and backend modules using **Python** on **Django Web Framework**.
* By utilizing **Python** on **Django Web Framework** developed entire frontend and backend modules.
* Used **Django configuration** to manage **URLs** and **Application Parameters.**
* Written**Python Scripts** to parse **XML** documents and load the data in database.
* Worked with **JSON** based **RESTful Web Services** and **Amazon Web Services (AWS).**
* Utilized Container Platform **ECS** in this project.
* Utilized **Jenkins** to deploy the Django application and run unit tests.
* Developed tools using **Python, Shell Scripting, XML** to automate some of the menial tasks.

**Environment:Python, MySQL, JSON, RESTful, HTML, CSS, XML, Shell Scripting, ECS,Unit Test, AWS, Jenkins, Django framework, Windows.**

**CYIENT Ltd, Hyderabad, India Jan 2013 – Dec 2013**

**Associate Engineer**

**Role: Python/Flask Developer**

**Responsibilities:**

* Analyzed the system requirement specifications and also in client interaction during requirements specifications.
* By utilizing **Python, CSS, AJAX, JSON andjQuery**developed the front end of the application.
* Implemented and tested many features for dashboard using **Flask, CSS** and **JavaScript.**
* Written backend programming in **Flask.**
* Created **REST** http services to interact with UI.
* Utilized**JavaScript** and **XML** to update a portion of a webpage.
* 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 also building table-free layouts.
* Implemented **Backbone JS** for creation of networking applications using **JavaScript.**
* Experience in writing **SQL** queries for performing various **CRUD** operations like **create, update, read** and **delete.**
* Collaborate with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions.
* Manage, collaborate and coordinate the work of an offshore development team.
* Special skills in developing user friendly, simple yet effective web based applications
* Deployed the project into **Heroku** using **GIT** version control system.
* Worked in **MySQL** database on simple queries and writing Stored Procedures for normalization and renormalization.
* Utilized regular expression to match the pattern with the existing one.
* Skilled in using collections in **Python** for manipulating and looping through different user defined objects.

**Environment: Flask, XML, HTML, CSS, IE8, FF, Safari, SQL, PL/SQL, MySQL, JavaScript, Backbone JS,jQuery,AJAX, JSON, REST.**

**CYIENT Ltd, Hyderabad, India July 2012 – Dec 2012**

**System Engineer**

**Role: UI Developer.**

**Responsibilities:**

* Worked on**CSS** Blueprint to create grids and adopt cross browser interactive features and to make the web pages more versatile
* Analyzed the requirements and designed the flow of task using flow charts and dependently designed flow between pages of the UI.
* Responsible for creating of website functionality with **JavaScript, HTML, CSS.**
* Worked on**CSS Sprites** to decrease the number of HTTP requests and increase the load time of web pages.
* Produced semantically appropriate, standards compliant markup, and produced Rich User Interfaces
* Involved in developing a user centric market driven site redesign.
* Utilized **JavaScript** and **jQuery** for validating the input given to the user interface.
* Utilized various **JavaScript** and **jQuery**libraries, **AJAX** for form validation and other interactive features.
* Created web content and tested all the websites with multiple browsers, operating systems, and screen resolutions.
* Code sites according to SEO, and keyword analysis, Social Network and Google Search Appliance (GSA)
* Implemented and maintaining the layouts using **CSS2** for all intranet applications compliant with W3C.

**Environment**: **HTML, CSS, DHTML, HTML, XHTML, AJAX, jQuery and JavaScript.**

**Education**

* Pursued **Master’s** in Computer Science at the **University of Central Missouri.**