**RACHANA  
SR. PYTHON DEVELOPER**

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**Professional Summary:**

* Over 8 years of experience as a professional application developer, software development and design using **Python, Django, Angular JS, React, Node JS, HTML, JavaScript, CSS, Java, MySQL, Oracle PL/SQL, Postgres**.
* Developed Consumer-based custom features and applications using **Python, Django, HTML, CSS.**
* Experienced with Software Development Life Cycle, Database designs, agile methodologies, coding, testing of enterprise applicationsand IDE's such as **Jupiter Notebook, PyCharm, Eclipse and Visual Studio.**
* Well versed with design and development of presentation layer for web applications using technologies like **HTML, CSS, Bootstrap** and **JavaScript**.
* Expertise in working with server-side technologies including databases, **Restful API** and **MVC** design patterns.
* Experience with high level Python web frameworks **Django** and **Flask.**
* Handled all aspects of the web application including maintaining, testing, debugging, and deploying.
* Experience with Python Libraries/Packages such as **HTTPLib2, Urllib2, Beautiful Soup, Py Query, Numpy, Scipy, Pickle, PyQT, PySide, Data Frames, Pandas and Matplotlib.**
* Experience in **Software Development Life Cycle (SDLC)** using **Agile** methodology.
* Good experience with **Amazon Cloud EC2**, **Simple Storage Service S3**.
* Experienced in MVC frameworks like **Flask** and **Pyramid** and **MVT framework** like **Django**
* Developed websites using JavaScript MVC frameworks such as **Bootstrap, AngularJS, NodeJS**.
* Worked on a new web app built in **React** and **Redux.**
* Experience with automation/configuration management using tools like **Ansible, Puppet, and Chef.**
* Working experience on JSON based **REST Web services** and **Amazon Web Services (AWS**) Such as **EC2, Lambda, ELB, SQS (Queuing Services), VPC and cloud** **watch.**
* Hands-on experience on **Apache Spark, Kafka.**
* Familiar with **Agile** and **Waterfall** development methodologies.
* Followed **Agile Methodologies (Scrum**) involved in daily stand-up meetings.
* Managed users, workflow, groups and projects in **JIRA.**
* Experience in working with different operating systems like **Windows XP, MAC, UNIX and LINUX**.
* Hands on Experience with parallel computing, multithreading; Experience with JSON based **REST Web services.**
* Excellent Experience and knowledge in using **XML, SOAP, web Service** for inter operable software applications.
* Experience in writing **Sub Queries, Stored Procedures, Triggers, Cursors, and Functions** on **MySQL** and **Postgre SQL database.**
* Experience with Version Control with **SVN** and **GIT**.
* Experience in implementing **PEP8** coding standards.
* Highly motivated, dedicated, quick learner and have proven ability to build and manage a team and work individually.

**Technical Skills:**

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| **Operating systems** | UNIX, LINUX, Windows |
| **Programming Skills** | C, C++, Java, Javascript, Python -3.5 & 2.7, SQL and Shell Scripting |
| **Markup Technologies** | HTML5, CSS, NodeJS, Bootstrap, jQuery, Dom, XML |
| **Databases** | Oracle, SQL server, My SQL, MS Access, and Postgre SQL, MongoDB. |
| **Web Servers** | Node JS, Apache, Tomcat, SOAP |
| **Development process** | Waterfall, Agile and Scrum |
| **Frameworks** | Django, Flask, AngularJS, React, MVC, REST |
| **IDE’s** | PyCharm, Pyspark, Microsoft Visual Code, Sublime, Eclipse, NetBeans. |
| **Python Libraries** | Pandas, beautiful Soup, NumPy, SciPy, Matplotlib |
| **Cloud Environment** | AWS Services, EC2, ELB, RDS, IAM, Cloud formation, S3, Cloud Operating Systems |

**Professional Experience:**

**DaVita - Denver, CO Aug 2018 – till date**

**Sr. Python Developer**

**Description:** DaVita is a health care provider which operates practices in Denver, CO. We design, develop and maintain software programs required to keep DaVita on the leading edge of medical technology. Worked with Python-based frameworks for the creation of web applications, including medical apps. Writing effective and scalable code, developed back-end components to improve responsiveness and overall performance. Worked with AWS using Restful API’s to extract the information.

**Responsibilities:**

* Responsible to create organized responsive design and developed user interaction screens using **Django** **React**, **HTML5, CSS3, Bootstrap, Javascript and jQuery**.
* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Designed Python/Django based web application**, Postgre SQL DB**, and integrations with email, messaging, storage services.
* Developed Python and Django for the backend development and front-end application using **React, Webpack, Redux and MySQL for database.**
* Developed web applications in Django Framework's **model view control (MVC**) architecture used Django Rest Framework to develop **REST API**.
* Used React JS in components like **JSX,** creating **React components, Virtual DOM, React Props**, Lifecycle methods, working with React States and Events.
* Used different python libraries like **SciPy, NumPy, and Pandas** to create models for predictive analysis.
* Responsible for setting up Python **REST API framework** using Django.
* Developed internal data science library in Python and **PySpark**
* Developed **SQL Queries** to run against database in **MySQL server** for the application.
* Developed a fully automated continuous integration system using **Git, Jenkins, MySQL** and custom tools developed in **Python and Bash.**
* Develop consumer-based features and applications using **Python, Django, HTML** and **Test-Driven Development (TDD).**
* Rewrote existing **Python/Django** modules to deliver certain format of data.
* Hands on **Agile methodologies, Scrum** stories and sprints in python.
* Responsible for tracking and monitoring project status in **JIRA (Agile).**
* Developed Python web services for processing **JSON** and interfacing with the Data layer.
* Worked on **JSON** and **XML** data of web application assets and its attributes.
* Built **SQL queries** for performing various CRUD operations like create, update, read and delete.
* Developed **PySpark** pipelines for multi-sourced data ingestion (S3, various API's, MySQL).
* Using **REST Web services** to integrate agile tool for SDLC in the project.
* Maintenance and continues development of the applications in **PL/SQL** procedures, **ETL modules** and **shell scripting** using best practices.
* Experienced in Working on Big Data Integration and Analytics based on **Hadoop, Spark** and No-SQL databases like **Hbase and MongoDB**.
* Using the Django framework developed models, customized admin page, views, templates and effective ORM implementation with My SQL.
* Worked on building of **Tableau desktop reports and dashboards** to report customer data.
* Wrote Python modules to extract/load asset data from the **MySQL** source database.
* Used **PyUnit**, the Python unit test framework, for all Python applications.
* Experience with **Unit testing/ Test driven Development (TDD), Load Testing**.
* Experience in consuming web services (REST) with python programming language.
* Used **SAS** and SQL to create files that would be used as lists for various business partners and their marketing campaigns, and to perform full comprehensive quality checks on those files to ensure the perfect accuracy of the lists.
* Used **Ansible** to configure and manage the infrastructure. And worked on **Jenkins** in production environment.
* Experience using **SAS** for different procedures involving high volumes of data spanning millions of records.
* Automation (Ansible) and Deploying on **AWS environment (EC2).**
* Creating Amazon **EC2** Cloud Instances using **Amazon Web Services** and configuration of launched instances with respect to specific applications.
* Collaborated with internal teams and external teams to solve the issues and giving feedback

**Environment:** Python, Django, React, Java, HTML/CSS, Javascript, MySQL, REST Web Services, Jupiter, NumPy, Pandas, JSON, PyCharm, Shell Scripting, TDD, Ansible, GitHub, Tableau, GIT, AWS, PySpark.

**Kroger - Blue ash, OH Sep 2017 – Jul 2018**

**Python Developer**

**Description:** Kroger is an American retailing company located in Ohio. Worked on building secure, reliable and scalable solutions for the end user on this project. With strong back-end python coding and scripting experience, worked with AWS Lambda.

**Responsibilities:**

* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web-based solution.
* Created **Python** and **Bash** tools to increase efficiency of application system and operations, data conversion scripts, **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.
* 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.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML, CSS, 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.
* 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.
* Worked on various environment Python**, MYSQL, Apache, CSS, GIT, HTML, JavaScript, Shell Scripts.**
* Experience in Amazon Web Services (AWS) cloud platform like EC2, Virtual private clouds (VPCs), Storage models (EBS, S3, instance storage), Elastic Load Balancers (ELBs).
* 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.
* Also used python scripts for security purposes, **AWS IAM, AWS lambda functions** and deploying the applications through elastic beanstalk.
* Used **Apache Tomcat web server** to handle HTTP request and deploy Java Servlets and JSP's.

**Environment:** Python, Django, RESTful, Linux, HTML5, CSS3, Bootstrap, JavaScript, jQuery, AJAX, MySQL, Shell, JIRA, CVS.

**Western Digital Corporation - San Jose, CA Jan 2017 – Aug 2017**

**Python Developer**

**Description:** Western Digital Corporation (Western Digital), located in San Jose, CA, is a developer, manufacturer and provider of data storage devices and solutions that address the needs of the information technology (IT) industry and the infrastructure that enables the proliferation of data in virtually every industry.

**Responsibilities:**

* 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 Python on **Django Web Framework.**
* Designed and developed the UI of the website using **HTML, AJAX, CSS** and **JavaScript.**
* Designed and developed data management system using **MySQL**.
* Write scripts using python modules and its libraries to develop programs that improve processing of access requests.
* Worked on various complex modules in python including **pyodbc, JSON, XML**, **Requests,** profiler.
* Utilized **PyUnit**, the Python Unit test framework, for all Python applications and used Django Database API's to access database objects.
* Used **PyQuery** for selecting **DOM** elements when parsing HTML.
* Designed and created backend data access modules using **PL/SQL** stored procedures and Oracle 9i.
* Worked in an agile development environment.
* Used **HTML, CSS, jQuery, JSON** and **JavaScript** for front end applications.
* Involved in development of Web Services using **SOAP** for sending and getting data from the external interface in the XML format.
* Designed object model, data model, tables, constraints, necessary stored procedures, functions, triggers, and packages for **Oracle Database**.
* Used Django configuration to manage URLs and application parameters.
* Used **Wireshark**, live http headers, and Fiddler debugging proxy to debug the Flash object and help the developer create a functional component.

**Environment:** Python, Django, HTML5, CSS, XML, AJAX, MySQL, JavaScript, Angular JS, JQuery, PyQuery, Bootstrap, Mongo DB, Postgre SQL, JavaScript, Eclipse, Git, GitHub, AWS, Linux, Shell Scripting.

**XPO Logistics - Philadelphia, PA Jan 2016 – Dec 2016**

**Python Developer**

**Description:** XPO Logistics is one of the top ten global logistics companies. This provides supply chain solutions and empowers the employees to deliver world-class customer service through our information technology. We’ve built a highly scalable and integrated platform using on-cloud technology that differentiates XPO across all lines of business and enables rapid development.

**Responsibilities:**

* Used the **Django** Framework to develop the application.
* Implemented web applications in Flask and spring frameworks following **MVC architecture.**
* Used Python to place data into **JSON** files for testing **Django** Websites.
* Updated and manipulated content and files by using Python scripts.
* Organized Python code using **PEP8** online tool including documentation of scripts.
* Implemented web applications in **Flask** and **spring frameworks** following MVC architecture.
* Used Django configuration to manage URLs and application parameters.
* Abided by PEP8 Python coding standard for Squish scripts.
* Worked on **Amazon Web Services (AWS**) infrastructure with automation and configuration management tools such as **Chef** and **Puppet**. Worked on python **Open stack API’s**.
* Used Python scripts to update content in the database and manipulate files.
* Generated **Python Django** Forms to record data of online users. Used **Python and Django** creating graphics**, XML processing, data exchange** and business logic implementation.
* Used **Pandas API** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Used **Flask** to connect front-end to back-end, **Cherry Py** to build the server and word clouds to visualize movies.
* Used latest Video conference applications and worked extensively on them. Data mapping, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data within the **Oracle database.**
* Performed daily administration functions, including database management, monitoring, performance tuning, backup and recovery and also general troubleshooting on multiple UNIX platforms and windows servers.
* Added support for **Amazon AWS S3** and **RDS** to host static/media files and the database into Amazon cloud.
* Developed tools using **Python**, **Shell scripting, XML** to automate some tasks.

**Environment**: Python 2.7, Django, HTML5/CSS, Parse Database, jQuery, GitHub, Amazon AWS S3, Jira.MS SQL Server 2013, JavaScript, Eclipse, Linux, Shell Scripting.

**Quintiles Tech – India June 2012 – Dec 2014**

**Python Developer**

**Description:** Quintiles Tech Private Limited is in India, which offers clinical monitoring, central laboratory, site management, project management, and data management services. The company’s consulting services include product development and commercialization, market intelligence, and information technology implementation.

**Responsibilities:**

* Developed the application using the Java I/O functionalities to display the output using the Stream-Readers both the Input and the Output Features.
* Designed and developed the user interface of the project with **HTML5, CSS3** and **JavaScript**.
* Entire Front end and back end modules of the project are developed using Python with **Flask** and **Django Web Frameworks**.
* Analyzed the system requirement specifications and client interactions during requirements specifications.
* Assisted in the Advisor Portal application development using **Django Web Framework** and **JavaScript.**
* Designed and wrote server-side web application logic, developed back end templates and components to connect with third party applications using Django web framework.
* Created a **RESTful API server** with **Django REST API framework.**
* Worked in **MySQL database** on simple queries and writing Stored Procedures for normalization and renormalization.
* Written Python Scripts to parse the **JSON** data and load into database.
* Utilized the existing **Python** and **Django** modules and rewritten to deliver data in required formats.
* Client-side validations and manipulations are done using **JavaScript** and **jQuery**
* Deployed the project into **Heroku** using **GIT** version control system.
* 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.
* Responsible for **Debugging** and **troubleshooting** the application.
* Working on Web Scraping, used **Beautiful Soup** modules, **Pandas** for data analysis.
* Developed and worked the inventory management system. Demand forecasting visualization with analytics.

**Environment:** Django, REST Framework (DRF), Python Pandas, HTML5, CSS3, Javascript, XML, UNIX, MySQL, Pandas, Beautiful Soup.

**Value Labs-India Apr 2010 – May 2012**

**Java/ J2EE Developer**

**Description**: Value Labs is a leading global technology company specializing in Digital Enablement and Product Development. Worked from identifying client pain points to creating a solution roadmap, then to building out the solution, and finally to managing end-to-end operations.

**Responsibilities:**

* Experience in **Java, Eclipse/ J2EE**, tested programing code & Applications, collaborated with team
* and management.
* Worked on creating& maintaining a centralized repository of UI components, participated in usability testing & research.
* Implemented the application using the concrete principles laid down by several design patterns like **MVC.**
* Extensively involved in design and implementation of front-end controller using **Struts MVC framework, JSP, JavaScript.**
* Experience in using **Hibernate** **as ORM** tools and **JPA frameworks** for database connectivity.
* Followed agile methodologies to carry out the project using **TDD** (Test Driven Development) approach.
* Knowledge in **Java Messaging Services (JMS)** and used for reliable and asynchronous exchange of important information.
* Utilized Core **J2EE** design patterns such as Singleton and **Data Access Object** (DAO) in the implementation of the services.
* Knowledge in creating web services using **SOAP** and producing **WSDL** to the Client side.
* Designed and developed user interface using front-end technologies **like HTML, CSS, JavaScript, and jQuery.**
* Implemented server-side programming using **Servlets, JSP.**
* Build prototype for various required services such as Scheduling, Logging and Notification Service using third party **Node JS** based JavaScript library.
* Experience in using **GIT** for pulling and committing the developed content from/to the GIT repository.
* Worked in the **Agile/Scrum** development environment with frequently changing requirements and actively participated in scrum.
* Involved in the defect fixes and project tracking by utilizing tools like **JIRA.**
* Used **JUnit** for unit testing and repeatable tests for the application.
* Extensively used core java concepts like collection frame work, **multi-threading**, **OOPS** and **Exception Handling.**

**Environment**: Java, J2EE, Eclipse, Hibernate, HTML, CSS, JDBC, JSP, Web services, JavaScript, jQuery, MVC, servlets, Node js, TDD, Eclipse, JMS, JIRA.