Rakesh Singh
Software Engineer, Userfacet UXDesign and FutureLab LLP

Email ID: rakesh.s.shankala@gmail.com

LinkedIn: www.linkedin.com/in/rakeshsingh007/

GitHub: https://github.com/Rakeshsingh007/

Contact No: +91-7737611880

Professional Summary

Experienced Python backend developer committed to maintaining cutting edge technical skills and UpToDate industry knowledge. Has 3.5 years of experience designing innovative applications and achieving high quality.

Technical Capabilities

- Over 3.5 years of IT Experience in designing, developing and implementing of various stand - alone and client-server architecture-based enterprise application software in **Python** using **Django Framework**.
- Design and Developed **RESTful APIs** for Cross Platform applications using **Django REST framework** on Nginx servers.
- Skilled experience in **Python** with proven expertise in using new tools and technical developments (libraries used: **Pickle, Requests, JSON, Beautiful Soup, OS, Collection, Psycopg2** for database connectivity) to drive improvements throughout entire software development lifecycle.
- Strong Expertise in **PostgreSQL.**
- Experienced with databases using ORMs for integrating with **Postgres** and **SQLite**.
- Expertise in establishing database connections for Python by configuring packages like **psycopg2.**
- Good Knowledge of web services using **REST** protocols.
- Experience in working with Python ORM Library like **Django ORM**.
- Experienced in working with various Python Integrated Development Environments like **PyCharm** and **Sublime Text.**
- Proficient in **Python, Django, Django REST framework and other supporting technologies.**

Work Experience

Company Name	Designation	Work Period	Product
Userfacet UXDesign and FutureLab LLP	Software Engineer	February 2020 - Present	ipassio.com voyapic.com, xperimentor.com
HUAWEI TECHNOLGIES INDIA PRIVATE LIMITED	Associate Software Engineer	December 2017 – January 2020	Mediation Telecom System

Software Proficiency and Skills

- **Primary Languages:** Python3
- **Python Libraries**: Pickle, Requests, JSON, Beautiful Soup, OS, Collection, Psycopg2
- **Frameworks**: Django, Django REST framework
- **IDE:** Sublime Text 3, PyCharm
- **Web Technologies:** HTML, CSS, Java Script
- **Methodologies**: Agile Model, MVC structure
- **Operating System**: Windows, Linux
- **Database**: PostgreSQL
- **Data Modeling:** JSON
- **ORM:** Django ORM
- **Version Control Tool**: Tortoise SVN, GIT
- **Domain knowledge**: Ecommerce, Mediation System (Telecom)
- **Tools**: PgAdmin, FileZilla, Putty, Beyond Compare

Career background

Project Name: ipassio.com | voyapic.com | xperimentor.com

- **Environment:** Python, Django, Django REST framework, HTML, CSS JavaScript, JSON, Postgres, REST, MVC, GIT, Sublime text, pgAdmin, Postman
- **Role:** Backend Developer
- **Responsibilities:**

  - Involved in requirement analysis, design, estimation of site backend design and implementation.
  - Developed and handled business logic through backend Python code.
  - Proficient in handling huge data and performing creating, reading, updating and deleting (CRUD) operations on Postgres using Django ORM.
  - Using Django Framework model, implemented MVC architecture and developed web applications with superb interface.
  - Developed the business logic in views for the URLs created and linked the webpages to functions in views to show the output to the end-user or to store information from the website into the database.
  - Worked on Django REST framework as it is much faster to read data and it can be cached. REST allows more formats than SOAP and gives better support for browser clients as it supports JSON.
  - Worked on Django ORM API to create and insert data into the tables and access the database.
  - Extensive experience in using the python packages such as Pickle, Requests, JSON, Beautiful Soup, OS, Collection and Psycopg2.
  - Extensive knowledge in doing python file operations and reading data and make operations to get desired outputs.
  - Experience in using the Lambda functions like filter (), map () and reduce () called functional programming.
  - Experience on using Django admin and created superusers, updated tables in the database.
  - Worked on registering URLs in app URLs and linking them to views.
  - Worked on databases like MS SQL server, Postgres and SQLite.
  - Extensive use of python data structures lists, tuples and dictionaries.
  - Experience on working with complex list comprehensions and python inbuilt functions such as map, filter and lambda.
  - Experience in debugging and worked on resolving the bugs.
  - Created templates for page rendering and Django views for the business logic.
  - Used Django REST framework and integrated new and existing API's endpoints.
  - Built JSON objects using the framework which will be Worked on by JavaScript to control the flow of the page.
  - Experience in debugging and worked on resolving the bugs.

Project Name: Mediation Telecom System

- **Environment:** PyCharm, MICE, PL-SQL, MICE, Tortoise SVN, ASN Viewer, TAP viewer
- **Role:** Mediation Backend Developer
- **Responsibilities:**

  - Guided Mice CDRs parsing algorithms for performance improvement and achieved it successfully.
  - Streamlined and adopted up system developed CDRs format and same conveyed to solution engineers.
  - Helped in Design of Test scenarios for New CDRs formats.
  - Delicately helped Onsite and provided support during upgrades and major activities.
  - Successfully implemented High level solution of Provision interaction systems.
  - Collecting requirements from Customer for Parsing CDRs and collaboration with Software Manager, Test manager and Software Tester.
  - Developing the specific requirements and General requirements corresponding to region and operator. Developing and Testing the Network based MCC/MNC related CMW test cases.
  - End to end Mediation Functionality testing for different down systems and up systems.
  - Requirements analysis and development using Python MICE modules.
  - Having Knowledge in collecting logs using tools like Mobaxtrerm, SecureCRT and putty during UT executions

Educational Profile

- Graduated, with completed Bachelor of Technology, First Class.

Personal Information

- **Date of Birth**:   15/02/1995
- **Sex**:   Male
- **Nationality**:   Indian
- **Languages**:   English, Hindi
- **Address**:   J1 102, Greenwood residency, Kaikondrahalli, Bengaluru, Karnataka, 560037

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