Harshit Rai

Junior Software Engineer

✉ harshitrai555@gmail.com ☎ +91 8445086720 📍 Gurugram

OBJECTIVE

As a Python Developer, my objective is to work in a collaborative and creative environment where I can utilize my expertise to design, develop and deploy high-quality applications that meet the needs of the organization and exceed the expectations of users.

EDUCATION

Quantum University
May 2018 - June 2022

- *B.TECH*
  Computer Science and Engineering

The AB'S Rowland School
April 2016 - June 2017

- *Senior Secondary*
  CBSE

Dayawati Modi Academy
April 2014 - June 2015

- *High School*
  CBSE

WORK EXPERIENCE

L3Harris Technology
July 2023 - Present()

- *Python Developer*

  Data Analysis and Dashboard Creation(Excel automation)
  Data Filtering with Pandas:Employed pandas library in Python to filter and manipulate data efficiently.
  - Demonstrated proficiency in utilizing pandas functions/methods for data extraction, transformation, and filtering.
  - Implemented specific filters and conditions to extract relevant data subsets based on project requirements.
  Data Processing with Formulas:Applied customized formulas and operations within pandas to process, clean, or transform raw data.
  -Utilized mathematical, statistical, or custom formulas to derive new metrics or insights from the data.
  -Ensured data integrity and accuracy through systematic processing using pandas functionalities.
  Dashboard Creation:Utilized data processed through pandas to develop an interactive dashboard.

- Employed visualization libraries along with pandas data structures to create visual representations of processed data.
- Created a user-friendly dashboard interface presenting key insights or trends derived from the filtered and processed data.
-Demonstrated efficiency in handling large datasets using pandas, ensuring streamlined data processing and analysis.
- Optimized code performance for data operations, enhancing project efficiency and reducing processing time.

Integration of Spectrum Software using Python APIs
-API Integration with Spectrum Software:Developed Python script to interact with Spectrum software APIs for seamless integration.
- Utilized Spectrum's API documentation to understand endpoints and authentication methods.
-Functionality Implementation:Implemented API calls within the Python script to perform various functions provided by Spectrum software.
-Integrated functionalities such as data retrieval, updates, or any specific actions supported by the API.
-Data Handling and Transformation:Retrieved data from Spectrum software using APIs and handled JSON/XML responses in the Python environment.
- Processed and transformed data as required for further analysis or use within the script an send the data to splunk software to showcase in the GUI .

Towards Vision Technology

September 2021 - Present(1year 10months)

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Creating APIs using Python, Django, and FastAPI
 - Developed RESTful APIs using Django Rest Framework and FastAPI, allowing for seamless communication between client and server
 - Implemented authentication and authorization using JWT (JSON Web Tokens) and OAuth2.
 Creating caches using Redis
 - Implemented Redis caching to improve application performance by reducing database load and decreasing response times for frequently accessed data.
 - Used Redis to create temporary caches for real-time data processing in a telnet application, enabling faster packet reading
 - Leveraged Redis-py tools to interact with Redis and manage caching strategies, including setting cache expiry times and using Redis hashes for efficient data storage.
Working on ERP services using python
 - Collaborated with a cross-functional team to develop an ERP

dashboard, utilizing Python for backend data processing and PHP and JavaScript for frontend development.
 - Developed telnet-based packet reading and processing functionality to display real-time data on the dashboard.
- Troubleshot and debugged code to ensure smooth and efficient operation of the ERP dashboard, improving the user experience and increasing user engagement.
 - Utilized a variety of tools and techniques to troubleshoot and debug issues, such as log analysis, code inspection

CERTIFICATIONS

2021   Hackerrank
                             Certified from Hackerrank for Python programming

SKILLS

Python, MySQL, Django,FastAPI, Redis,RestAPI, Linux Basics,pandas.