

Richa Phulwani

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Education

2014 Bachelors: Computer Science
2020 Bachelors: Biology
Bachelors: Mechatronics
MTSU, TN
2022 Apache Spark
EDX Certification

Work History

07/21 – present Automation Engineer
Assurant, La Vergne, TN
07/20 – 07/21 Systems Engineer
Assurant, La Vergne, TN

Skills

• **Languages:** Python, Javascript, Powershell, Batch
• **Deployments:** Github, Docker, Kubernetes, Azure, GCP
• **Databases:** MySQL, MongoDB, BigQuery, PostgreSQL

Software Experience

APIs

- Made FastAPI apis for inserting and retrieving data using Python
- Retrieved data from apis using C# for use in automated printing machinery
- Used third party apis for data such as weather Android app and creating barcodes
- Utilized CRUD operations with apis on Postman, deployed app services, and local scripts
- Worked with JSON formatted data from APIs with Python, C#, and Javascript

Deployments

- Created Node JS web app and deployed it on Azure using Github
- Worked with Azure for databases, apis, and storage accounts
- Created docker images, pulled docker images, ran docker images on liquid web and Azure, and created and used docker compose files
- Used kubernetes cli and YML files to manage and create services on Azure
- Created executable for containing Python file and virtual environment in single file

Databases

- Worked with Mongo databases for querying and manipulating data in Python
- Built ETL process from Azure's Cosmos DB into Power BI dashboards using Python
- Retrieved data from NoSQL database using Python sql libraries and manipulated data using Pandas.
- Incorporated data from Azure's Cosmos DB database to Node JS webapp for data visualization
- Worked with Google Cloud Platform's Bigquery and PostgreSQL for ETL process between api and final BigQuery tables with Cloud function and Scheduler using Python

Languages

- Used HTML, CSS, and Node JS for multiple web applications and worked with libraries and frameworks such as Express, WebGL, and websockets
- Developed python rpa application using ocr from opencv and tesseract
- Used Python along with Pandas and Tensorflow to manipulate data for data visualization and create machine learning applications
- Utilized Powershell with Python subprocesses to get device information from plugged in USB devices for label application

Coding Experience

- Utilized asynchronous functions for Node JS Javascript Promises
- Used C# queues for proper FIFO operations
- Increased speed of operations in production environment by using lists, queues, and threading instead of if else and FIFO operations
- Worked on increasing speed of SQL queries by using best efficient SQL practices
- Developed different types of sorting and searching algorithms
- Worked with arrays, hashsets, hashmaps, linked lists, queues, trees, hashes, classes in Python
- Used regular expressions in various applications
- Used Python's threading class to develop a non-blocking class that works with other classes
- Developed python code with OOP techniques including inheritance, polymorphism, encapsulation, and abstraction

Libraries/Frameworks

Pandas (Py)
Express JS (JS)
Websockets (Py)
Tensorflow (Py)
Keras (Py)
OpenCV (Py)
Threading (Py)
PyMongo (Py)

Requests (Py)
BeautifulSoup (Py)
Webbrowser (Py)
Selenium (Py)
Pyautogui (Py)
Barcode (Py)
Pytesseract (Py)
mysql-connector (Py)

Matplotlib (Py)
FastAPI (Py)
NodeJS (JS)
Numpy (Py)
React (JS)
Pyinstaller (Py)
Pywinauto (Py)
PyUSB (Py)