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OBJECTIVE:

Looking for an opportunity where I can apply my knowledge and enhance my skills in meeting organizational and personal growth.

PROFESSIONAL SUMMARY:

- Having 3.7 years of experience in IT industry of all aspects of design and development in python.
- Experienced in **Python** Automation Development.
- Experience in **Python scripting** programming.
- Good knowledge in **HTML, CSS** and **JavaScript.**
- Excellent knowledge in file handling using **openpyxl, xlrd** and **pandas** with Python.
- Efficient and knowledgeable work experience in **MongoDB** and **pandas.**
- Experience in flow of automation and building the TK tools using Python scripting.
- Good Exposure to the all Phases of Software Development Life Cycle (**SDLC**).
- Created bandwith and automated scripts in several projects of **Unilever**.

EDUCATIONAL QUALIFICATION:

- **Completed M.Tech** in Power Systems and Automation at GITAM University in April 2015

PROFESSIONAL EXPERIENCE:

- Working as an **Associate** in **Cognizant** from Jan 2019 to Present.
- Worked as a **Supply chain Consultant** in **Hindustan Unilever** under **KPIT Technologies** from Feb 2018 to till Jan 2019.
- Worked as a Software Engineer in **LOITUC** from June 2015 to Feb 2018.

TECHNICAL EXPERIENCE:

Languages	**Python**

Database	**MySQL, MongoDB**
Version Control Tool	**GIT**
Operating Systems	**Linux, Windows.**
Python Libraries	**numpy , matplotlib, pandas**

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PROJECT 1:

Project Title	**Inventory Loss Tree**
Development Environment	Windows IDLE,Python ,pandas, xlrd

Description:

 ILT cube is used to replace the SAP effectively. ILT cube provides an excel pivot based access to the Inventory measures available in **SCDG.** These measures are extracted from the following Source systems: APO, ECC, BW, Connect etc. Logic & Calculations are applied on the measures to show data in relevant buckets and horizons. The main segments in the Cube which is relevant from an Inventory point of view are Month end snapshot, Weekly snapshot, Daily snapshot.

Roles and Responsibilities:

- Done FG and RMPM reconciliation b/w **SAP** and **ILT**

- Effectively developed utilities for the recon b/w SAP and ILT and reduced manual efforts using **pandas merging** .

- Good knowledge in excel **VLOOKUP's** and **Pivot**.

- Developed Utility for Stocks and Norms calculation's for Data Dump's.

- Implemented several scripts for other projects of **Kinaxis, PBCS**
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PROJECT 2:

Project Title	**Quality Metrics GUI Editor Tool Development**
Environment	Linux, Python, Tkinter, Mongo DB, Data Science Modules.

Description:

QMET (Quality Metrics Editor) is a GUI application. This tool is like a dashboard, which keep track of the project metrics i.e. including the number of vectors simulated, and number of vectors tested in ATE tester, and the status of those runs, And the number of ATE checks processed, wafer diagnostics results etc. This tool will keep track of the ATE project specs, which can be used for the ATE tester as input parameters for the runs, i.e. the constraint name such as voltage, timing, frequency parameters etc. This tool is used to be a common platform for test engineers and simulation engineers to feed all the test vectors of a project. This tool uses MongoDB in the backend for storage purpose. This tool acts as an interface between the test engineers and sim engineers. Sim engineer will develop the vectors and test engineer under different phase conditions varying temperature and voltage will test the released vectors on the tester.

Responsibilities:

- Involved in development of initial Prototype and basic framework of the project.

- Involved in designing the UI and styles.

- Involved in writing Python APIs to interact MongoDB.

- Extensively used python for data science modules to visualize the data more effectively to the users.

- QMET GUI application invokes the associated Python API functions based on User Selections in the GUI.

PROJECT 3:

Project Title	**ATE(Automatic Test Equipment) Quality Checks Development**
Environment	Linux, Python, Tkinter,Putty

Description:

ATE Quality checks are python scripts which is used to validate the ATE input data before handing off the pattern bins to ATE test team for testing.Mainly used quality checksare

binchecker, stilchecker, tagchecker,stil2bincheck, memory coverage, frequency checker, iddq checker, failure log coverage checker, STDF parser checker … etc.**STDF Parser** is a unix command line based python utility to parse the stdf files generated by tester for a project. Parse the stdf file to find out the vector status under different phase conditions. Store the vector status results in MySQL DB having the status values as Pass,Fail,Waived-Off for different phasing condition. There are four types of phases – Phase1,Phase2,Phase3. The phases in the tester are divided by varying voltage and temperature. The input to the tester being vector bin files and the output of the tester will be stdf log files for a project. **Binchecker** checks for the existence of all the valid bins in the release area against the stil files. Every vector will have valid stil file and bin file i.e tester format. **Memory Coverage** is used to cross check the number of memories covered for every bist port with reference to the top level bist port summary file.**Tagchecker** checks for the latest tagged bin file in release area to be used as input to the ATE Tester. **Frequency** checker is used to verify that all the bin files should be tested with target frequency, i.e defined in bin files with specific parameter. **Stil2bincheck** is used to check that all the bins are available in release area with respect to each stil file. **Failure Check** is used to track the cycle number on which the failure occurred in the ATE Tester before generating STDF file, This information can be used to analyze the failures.

Roles and Responsibilities:
- Involved in development of initial Prototype and basic framework of the project. Developed GUI tool to make ease of launching   the checkers.

- All the checker results i.e Pass/Fail/NotRun associated with project will be stored in MySQL DB. Developed python wrapper script to store the vector status results either Pass/Fail/Waived-Off in MySQL DB.

- Build the hash structure by parsing the stdf file. All the get API functions present in the pythonmodule will query the hash to fetch the results of a particular vector.

- Involved in writing Python API's to interact MySQL.

- Developed the consolidated python module with all API functions.

- Providing support to various issues raised by engineers related to all the Checkers.

DECLARATION:

I hereby declare that the details furnished above are true to the best of my knowledge and belief.

Place:
Date: Phanindra.D