**SUMMARY:**

* 6+ years of experience IT industry as a Data Analyst, Application Developer and proficient coder in multiple languages and environments including Python (2.7, 3.x), Oracle PL/SQL, SQL, Java, J2EE Servlets, XML and JSP.
* Worked on several standard python packages like NumPy, Pandas, Matplotlib,sqlalchemy, SciPy,Scikit-learn, Seaborn,nltk ,urllib, requests, BeautifulSoup,json, PySide, Pickles, PyTables, tweepy.
* Worked on various applications using python integrated IDEs Eclipse, PyCharm, NetBeans.
* Expertise in working with different databases like Microsoft SQL Server, Oracle, MySQL, PostgreSQL and knowledge of using NoSQL databases.
* Strong Knowledge on Oracle architecture and database design.
* Working knowledge on Big data Technologies like AWS and Hadoop.
* Expertise in using Oracle […] ,PL/SQL, MYSQL, TOAD.
* Created various schema objects like Tables, Joins, Views, Constraints, and Indexes.
* Developed Complex database objects like Stored Procedures, Functions, Packages and Triggers using SQL and PL/SQalong with performing DDL and DML operations on the database.
* Experience in advanced PL/SQL concepts for Bulk Operations using Bulk collect, Bulk Exception, Collection and FORALL.
* Excellent working knowledge in UNIX and Linux shell environments using command line utilities.
* Good knowledge in maintaining various version controls systems such as SVN (Centralized Version Control System) and GIT (Distributed Version Control System).
* Attentive to cyber security and data protection.
* Having experienced in Agile Methodologies, Scrum stories and sprints experience in a Python based environment, along with data analytics, data wrangling and Excel data extracts.
* Involved in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* Highly motivated, quality minded developer, with proven ability to deliver applications against tight deadlines.
* Possess good interpersonal, analytical presentation skills, ability to work in self-managed and Team environments.
* Performed code reviews and implemented best Pythonic programming practices.
* Good Experience in following PEP 8 Guidelines in coding Python.
* Experience in writing test scripts, test cases, test specifications and test coverage.
* Good experience in handling errors/exceptions and debugging the issues in large scale applications.

**Technical Skills:**

Programming Skills : C, C++, C#, .NET, Java, Python, R, SQL and PL/SQL.

Operating Systems : Windows XP,7,8,10 and UNIX.

Database Concepts : Oracle & SQL Server

Scripting Languages : HTML, XML, CSS, JAVA SCRIPT and jQuery

Development Tools : Visual Studio 2015, Eclipse, TOAD & Android Studio

Version Controls : Tortoise SVN, GIT Hub

Other : MS Office (MS Word, MS Excel, MS PowerPoint, MS Access)

**Professional Experience and Projects**

**CTDI**,**West Chester, PA** **(Aug' 16 – Present)**

**Project:** Warehouse Management System (WMS)

**Role**: Data Analyst

**Project Description:**

CTDI's Warehouse management system(WMS), serves as the primary inventory management system to handle the physical receipt, stocking, and inventory management activity for all equipment. A data warehousing application was developed to load all the data from different databases and applications into one single database to ease the reporting and display large data. Python is used to process the data from Oracle server and used to develop analytical tools and charts using the processed data. This will reduce the load on the live production tables and let the operations to view the reports without the production tables being hit. Hourly, daily scheduled jobs will run to load data from the WMS systems to the data warehousing system.

**Responsibilities:**

* Extracted, interpreted and analyzed data to identify key metrics and transform raw data into meaningful information.
* Participated in the Analysis, Design and Development Phases of report development, performance tuning and production rollout for every report.
* Used Python libraries like NumPy, Pandas and Matplotlib for dataanalysis tasks such as data cleaning, reformatting and exploration.
* Implemented statistics analysis and cluster analysis on Inventory and sales data with Numpy and Scipy library.
* Used Python scripts to update the content in database and manipulate files to the required formats as required by using the Python library sqlalchemy.
* Good Experience in following PEP 8 Guidelines in coding Python.
* Built various graphs for business decision-making using Pythonmatplotlib library.
* Used Pandas to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Wrote SQL scripts and PL/SQL queries using TOAD and Oracle SQL Developer to query DBs and analyzed the results.
* Identified, analyzed, and interpreted trends or patterns in the data using python’s seaborn package and pandas with data frames.
* Tested the different sources such as Flat files, Mainframes Legacy Flat Files, DB2 and Oracle to load into the Oracle data warehouse.
* Used Tortoise SVN for version control.
* Performed troubleshooting, fixed and deployed many Python bug fixes in the automation scripts for the report analysis
* Worked with development team on modifying database schema to optimize performance and data integrity.
* Maintained program libraries, users' manuals and technical documentation.

**Environment:** Python, Oracle Server, Toad, Tortoise SVN.

**SEPTA, Philadelphia, Pennsylvania. (Aug' 15 – July’ 16)**

**Project:** Prediction of Train Delays for SEPTA Train System

**Role**: Data Analyst

**Project Description:**

The SEPTA Regional Rail system use On-Time Performance (OTP) to measure service reliability. OTP identifies the number of trains for all rail lines that arrive at their scheduled destination at the scheduled time. However, by industry standard, a train may arrive up to 5 minutes and 59 seconds after its scheduled time and still be considered on-time. SEPTA have established an annual goal of 91% for Regional Rail On-Time Performance. A commuter cares more about the performance of the train(s) one plans to take. OTP maybe 91% or above; but, if the train one takes runs late, individual spends extra time on the tracks. If it consistently runs late, maybe the schedule should be changed.

**Responsibilities:**

* Participated in all phases of data collection, data cleaning, developing models, validation, and visualization and performed Gap analysis.
* Captured Modelling requirements from client to Bench functional requirements for Python.
* Extracted the required data(columns) from huge dataset using python scripts especially using heavy import libraries.
* Relations between the data is stored in form of SQLite file which is then imported into python.
* Used pandas, NumPy, Seaborn, Scipy, Matplotlib in Python for developing various techniques in predictions and produced graphs accordingly.
* Regression analysis like Multiple linear regression had been applied on the data to predict train delays and used Curve fitting.
* Designed and tested Predictive Algorithms using Historical Data.
* Utilized machine learning algorithms such as Decision Tree, linear regression, multivariate regression.
* Built a linear regression model using Bayesian statistics that estimates the train delay for each train and produces the predictions for rest of the days and weeks.
* Created dashboards in Tableau to visualize data.
* Used SQL commands through Python and queried relative information using the library SQLalchemy.
* Presented clear and informative data analysis to SEPTA team.

**Environment:** Python 2.7, SQLite, SQL

**MagnaQuest, Hyderabad, India (Oct' 12 – Jul’15)**

**Project: MQSubscribe**

**Role:** Associate Software Developer

**Project Description:**

MQSubscribe is MagnaQuest’s flagship product in customer management and billing space catering to the needs of Cable, Satellite (DTH), ISP, ASP and Convergent service providers. Application is developed using Java with Support of Oracle 9i database and provides Subscriber Management, Billing, Customer care, Mediation and Provisioning systems among others. The system supports both flat rate as well as usage based.

**Responsibilities:**

* Reviewed the Business/ Functional/ System Requirement Specs, High Level Design Documents, and Detailed Design Documents.
* Worked with Business Analysts and Business Users team to understand the requirements and translate the requirement into technical specifications.
* Coordinated with the front-end development team to provide GUI requirements.
* Designed the various modules of the application using Java.
* The development of project involved in implementing web pages, backend code using Java.
* Developed various modules using Stored Procedures, Functions, Packages, Triggers, Tables, synonyms, Materialized Views, sequences, indexes which is compatible with the java Application
* Regular maintenance (Reorg/ Partition Maintenance/Alter Index/Rebuilt of the table) of the database.
* Experience in application development using various features of Oracle like Bulk Collections, Table Functions, Autonomous Transactions, Dynamic SQL, Object types, Records and External tables
* Created Cursors and Ref Cursors in the PL/SQL Blocks
* Used JDBC for database connectivity and manipulation.
* Validated and loaded data into Oracle Database using DB links and external tables from CSV files
* Designed and Developed scripts for uploading data from flat files and XML files into database, performing business validations on the data using PL/SQL Procedures
* Improve the performance of the slow SQL queries by implementing indexes, using BULK LOAD, BULK COLLECT and developed various procedures, functions and packages to implement the new business
* Participated in business meeting with clients to analyze the business needs and resolve the issues within the deadline.

**Environment:** Java, J2EE Servlets, JSP, Oracle 9i, PL/SQL, Discovery.

**BMIT Solutions, Hyderabad, India. (Aug’11 – Aug’ 12)**

**Project:** SCRADE (Smart Card Rapid Application Development Environment)

**Role:**Software Engineer

**Project Description:**

Smart Card Rapid Application Development Environment is a set of tools developed for use in projects executed by IBM, which speeds up the development of smart card applications by providing a user-friendly GUI for Card Structure Definition. An XML based automated card personalization utility and a library which provides a generic interface for developing smart card applications. This library hides the changing physical communications protocols required by different smart cards and card readers.

**Responsibilities:**

* Responsible for Gathering the system requirements, feasibility study, prototyping, and suggesting the best solutions to customers.
* Attending technical review meetings to discuss technical feasibility and concerns before project's kick off.
* Managing design and development of quarterly releases of new product enhancement features, Client's customizations and implementations.
* Responsible for writing detailed functional and technical design documentation for the requirements owning and controlling the documents.
* Attended technical orientation sessions to understand smart card is9000 and Gemplus libraries.
* Developed Business implementation using Java and XML.
* Developed various java business classes for handling different functions.
* Designed the XML Schema for data transmission using xml documents
* Created XML mappings for the services to communicate with different databases.
* Making changes to XML files which help the Client to Display data on the reports.
* Used IBM Rational Application Developer for development, debugging, coding and deployment of the applications.
* Involved in code reviews, test case reviews and gave feedback on various design aspects
* Involved on fixing the defects raised by the QA team.

**Environment:** Java, J2EE, XML (Xerces Library), Gemplus Libraries, MS Access.