

# Parvathirajan Natarajan



## Contact

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## Tools and Technologies

- ✓ Python, GO and Core Java
- ✓ SQL – MS SQL Server, Redshift
- ✓ AWS – S3, EMR, Lambda etc.,
- ✓ PySpark, Spark
- ✓ Apache Airflow
- ✓ Docker
- ✓ Version Control – GitHub, Bitbucket
- ✓ Power BI, Tableau
- ✓ UNIX, Shell Scripting

## Interests & Hobbies

- ✓ StackOverflow Contributions
- ✓ Web Page Development
- ✓ Open Source Project Development
- ✓ Music and Games

## Languages

- English
- Tamil

## Summary

Data Engineer, specializing in Framework development and Cloud technologies with 3+ years of experience. And Experienced with all stages of the development cycle of Data Analytics and Cloud Migration Projects. Well-versed in numerous programming languages including Python, Go and Strong knowledge in SQL, Relational Databases, AWS, Docker, CI/CD, Databricks, Spark, Scala, Apache Airflow, Kafka etc., Strong background in project management, Agile, and customer relations. I have a better academic background with good analytical skills during my training.

## Education

**Bachelor of Technology, Information Technology.**

2013-2017

AIHT affiliated to Anna University,  
Chennai.

CGPA: 7.5

## Experience

**Software Engineer – Current Role**

**Systech Solutions Pvt. Ltd., Chennai, TN**

- Collaborate with the Client to get the requirements and to create a proper plan for the process build.
- Analyze the data and or assess the feasibility and build the process to make the data as useful.
- And to Create python Frameworks for Data Pipeline, Automate the Data Warehousing process and automate the manual jobs. i.e., Reconciliation Process between different Data Sources
- Develop project concepts and maintain optimal workflow. Maintained the CI/CD pipeline for the project.
- Carry out quality assurance tests to discover errors and optimize usability.

## Recent Accomplishments

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- Won the cash prize of \$1000 in Systech Hackathon 2020 for the Python project called Dates. It is a file converter utility to convert the nested JSON, XML file into a flatten file and many other conversions are available around 30+ possibilities. Code is yet to be pushed into python-pip/GitHub as an open-source tool.
- For Fox Corp., - Created a Generic Python framework (For all internal projects or teams) to load data from S3 to Redshift irrespective of the data formats.
  - **Technology Stack:** AWS S3, Redshift, Python Libraries - boot, pandas, s3fs etc.,
- For Fox Corp., - Build a Data streaming process for Ad analytics. Build consumer to get the Data from Kafka Producer and created a most reliable framework to process the data.
  - **Technology Stack:** Databricks, Spark, Scala, Python, etc.,)
- For Fox Corp., - Build a Container for Data Migration from Oracle into Redshift. Based on the table lists posted in the S3 path, the container will start to extract the required data/tables from Oracle and create tables automatically, the container will start picking the incremental files.
  - **Technology Stack:** SQL, Docker, Python, and AWS Services
- For Fox Corp., - Completed a web scrapping project: Web Data extraction automation to apply filters in the front-end application and download or extract the data, also create a Data Pipeline to make it structured data for the Reporting layer.
  - **Technology Stack:** AWS, Python Libraries - BS4, Mechanize, boto3, etc.,



## Professional Exposure

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Fox Corporation

10/2018 - Present

Data Engineer

Enhancement, Migration and Development:

- Fox Corporation is an American mass media company. The company was formed in 2019 as a result of the acquisition of 21st Century Fox by The Walt Disney Company; the assets that were not acquired by Disney were spun off from 21st Century Fox as the new Fox Corp., and its stock began trading on January 1, 2019.
- This role in Fox Corporation is to migrate the Internal projects and different environments as part of the Walt Disney acquisition, Enhancements for the existing process.

Responsibilities:

- Discussed with onsite lead for getting requirements, Involve in all part of Development Lifecycle.
- Preparing documentation – Technical Specification, Design and QA
- Managing the on-time project deliverable.
- Automate the process with Python Frameworks and Process pipeline to reduce the time and effort

**Technology Stack:** AWS – S3, Redshift, EMR, and Lambda, UNIX, Scripting Languages – Python, and Shell, Docker, Bitbucket, Apache Airflow, Kafka, Spark and Databricks.

## Data Engineer

### Netezza to Redshift Migration:

- Mercury Insurance Group is a multiple-line insurance organization offering personal automobile, homeowners, renters, and business insurance.
- The project is all about to migrate the data from Netezza to Redshift and provide the Proof of the Concept to the client.
- Main objective is to load the data from the traditional Database to the cloud environment called AWS RS.
- AWS RS is cost effective when compared to Netezza. So, the migration of data to the cloud will give the considerable or most valuable profit in maintaining the EDW.
- Process is to migrate the structure and data from Netezza to Redshift with the help of AWS SCT (Tool which is provided by AWS) then do the validation on the migration. And create the python script to covert the Netezza inbuilt function and SP used in Netezza EDW.

### Responsibilities:

- Discussed with onsite lead for getting requirements – Requirement analysis phase.
- Migrate structure from Netezza to AWS RS with AWS SCT.
- Do the history load from source DB to the current target when the source data has been refreshed.
- Developed the python script for the migration of inbuilt function in Netezza and for the stored procedure.
- Attended Scrum call.
- Prepared all the migration things like DDL and Scripts for the project migration from the Netezza team standpoint.
- Managing the on-time project deliverable and providing data load status to the onsite people.

**Technology Stack:** Netezza, AWS – S3, SCT, Redshift, UNIX, Scripting Languages – Python, and Shell.

## Data Engineer

### AWS Enhancements:

- Fox Networks Group is 21st Century Fox's primary operating unit for TV and Cable.
- This process for Fox Network Group is to build an Automation Process for the data comes from the S3 bucket through the Ascend, load the data into the Redshift cluster aggregation tables and to build reports with the loaded data from there.
- Main objective of this initiative to modernize the Data Platform for Fox Network Group, by consolidating on Cloud within the framework defined by the 21CF Data Platform and Technology stack.
- This architecture impacts the business ability to process and analyze the video consumption across many MVPDs.
- Design and Implement a python script on "EDH" with AWS cloud to satisfy the analytical needs.

### Responsibilities:

- Discussed with client for getting requirements for the tasks as Requirement gathering phase.
- Developed the python script for the ETL process.
- Quality Assurance for the developed product.
- Completed QA with the existing aggregation tables.
- Discussed with the Client regarding the process report and testing during the QA and Development process.
- Automated process with Autosys. Worked with UNIX
- Attended Scrum call.
- Prepared all the migration things for the project migration under Program Inventory.
- Created pseudocode documents/JOB understanding documents for the upcoming trainees and other mandatory documents for support team like Operational manual.
- Managing the on-time project deliverable.

Technology Stack: AWS S3, Amazon Redshift, UNIX, Shell, and Python Scripting.

## Tillys

12/2017 – 04/2018

## DBA Trainee & Support Engineer

Tillys is the big textile firm in US and it has around 220 stores across in USA. They're maintaining their datawarehouse in the AS400 and getting reports over MSTR. The objective of the project is to support for the ETL part of the project and also provides an end-to-end support that helps good visualization using MSTR.

### Responsibilities:

- Contributed for the development and support of the ETL process.
- Validated and tested the data in the table after loading.
- Created pseudocode documents, JOB understanding documents for the upcoming trainees and other mandatory documents for support.

Technology Stack: AS400, SQL SERVER