

PROFILE

Experienced IT professional with over 10 plus years in Big Data technologies, specializing in Python, Spark, and AWS. Known for being resourceful, innovative, and adaptable, I'm seeking a challenging role to leverage my expertise and consistently deliver results.

CONTACT

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Linked-In Profile:

<https://www.linkedin.com/in/dataengrsa/>

PORTFOLIO

<https://shashireddy40.github.io/myportfolio/>

CERTIFICATIONS

ISTQB-CTFL

Big Data Engineering with Hadoop and Spark from E&ICT, IIT Roorkee

PERSONAL PROFILE

Full Name:

PATOORI SHASHIDHAR REDDY

Date of Birth:

10th May 1990

Languages Known:

English, Telugu and Hindi

HOBBIES

Chess,
Cricket

SHASHIDHAR REDDY (SHA-SHI)

Senior Data Engineer | Quant | Python

Johannesburg, South Africa | EMEA-Ready

EDUCATION

Jawaharlal Nehru Technological University, Hyderabad, India

Bachelor of Technology in Aeronautical Engineering.(2007-2011)

WORK EXPERIENCE



OLDMUTUAL SA

Data Engineer | Johannesburg, South Africa | Hybrid

March 2023–Oct 2024(1.6 years)



JUMO.WORLD

Senior Data Engineer | Cape town, South Africa | Remote

Oct 2020-Feb 2023 (2+ years)



SVSS TRADING (PTY)LTD

Quant Data Engineer | Johannesburg, South Africa

March 2019-May 2020. (1.3 years)



Sonata Software

Big Data Engineer | Hyderabad, India

January 2015–January 2019 (4 Years)



IrusInfotech Pvt Ltd, India

QA Analyst | Hyderabad, India

June 2011–January 2015 (3+ years)

SKILLS

Languages:

- Python, Scala, SQL

Big data Technologies:

- Apache Spark, NiFi, Airflow
- Hadoop, Hive, Delta Lake
- Pandas, NumPy, Polars

Utilities/Tools:

- Docker, Postman, VS code, Postgres, Dynatrace

Cloud Platforms:

- AWS (S3, Redshift, EMR, EC2, SNS, SQS, Lambda, Athena, Crawlers)

DEPLOYMENT TOOLS

- Terraform, Jenkins

- **PROFESSIONAL EXPERIENCE**

PROJECT #1:

Title: Two-Pot retirement system
Location: Old Mutual SA, Johannesburg, South Africa
Duration: March 2023 to October 2024
Tools Used: Spark, Python, SQL, Postgres, AWS, Polars, Pandas
Team Size: 6
Role: Data Engineer

Description:

The two-pot retirement system from Old Mutual in South Africa allows members to access a portion of their retirement savings for emergencies while keeping the rest invested until retirement.

Responsibilities:

- Design, create, build & maintain data pipelines
- Gathering data from various sources and Sending to the Two Pot system data warehouse.
- Transforming data with spark and writing the data with various data formats
- Creating Dashboards with Dynatrace and creating notifications for the failures
- Automating the CI/CD Pipeline for the entire data pipeline

PROJECT #2:

Title: Data Systems (EDW)
Partners: Tigo, Airtel and MTN
Location: Cape town, South Africa
Duration: October 2020 – February 2023
Tools Used: AWS, Spark, Python, SQL, Airflow
Team Size: 5
Role: Senior Data Engineer

Description:

JUMO is the market leading banking as a service platform, enabling real-time access to funds at the lowest possible operating cost.

Integrating into JUMO's platform enables our partners to offer loans, savings and a wide range of financial choices to a new group of customers.

The first ecosystem partnerships were established with Tigo, Airtel and MTN to bring short-term loan products to people and small businesses in Kenya, Zambia and Uganda.

Responsibilities:

- used various operators ETL pipelines that extract data from multiple sources, Transforming and stored in Delta Lake in optimized way
- Focus on simplified data models that represent business processes, operational excellence, systems & services resilience and efficiency, availability, maintainability, security.
- Building and handling successful designs, pipelines and development using Spark and AWS for large data processing systems
- build and manage workflows programmatically with Airflow
- Working in agile software-development methodology and utilizing technologies such as Jira, Git, Jenkins, Spinnaker
- Improvement of engineering processes (i.e., design reviews, build, operations, testing, release/deploy, monitoring etc.).

PROJECT #3:

Title: Trade Data Pipeline & Predictive Modelling for Algorithmic Trading

Client: Individual Clients (NSE/BSE Indian Markets).

Location: Sandton, Johannesburg.

Duration: March 2019 to May 2020

Tools Used: Python, SQL, Postgres, AWS

Team Size: 6

Role: Quant Data Engineer

Description:

Developed an automated data pipeline for gathering and processing trade and stock option data to support algorithmic trading strategies. Implemented robust back testing frameworks to validate strategies using historical data, ensuring optimal performance and risk management. Collaborated with machine learning engineers by providing accurate datasets to train predictive models for price action, enabling data-driven decision-making in real-time trading environments

Responsibilities:

- Designed and developed robust data pipelines to gather, clean, and process large volumes of trade data from various financial markets and exchanges.
- Implemented and optimized back testing frameworks for testing and validating algorithmic trading strategies using historical market data.
- Collected and processed stock option data, analysing trends and patterns to support trading strategy development and optimization.
- Collaborated with machine learning engineers to provide accurate and timely datasets, enabling predictive models for price action forecasting.
- Automated data gathering for real-time market data streams and option chains, integrating with internal analytics platforms to improve decision-making.
- Conducted exploratory data analysis (EDA) and statistical modelling to identify profitable opportunities and enhance trading algorithms.
- Utilized tools like Python, SQL, Pandas, and cloud platforms (AWS) for scalable data storage and analysis, ensuring efficient and low-latency data access for trading operations.

PROJECT #4:

Title : TUI Travel Group

Brands : Thomson Airways, Amadeus System, British Airways.

Client : TUI UK, British Airways.

Location : Hyderabad, India.

Duration : March 2015 to December 2018

Tools Used : Hadoop, Hive, Spark, Sqoop, Cloudera, Tableau

Team Size : 10

Role : Big Data Engineer.

Description:

TUI Group is a multinational travel and tourism company. It is the largest leisure, travel and tourism company in the world, and owns travel agencies, hotels, airlines, cruise ships and retail stores. TUI Travel Group have several UK-based tour operators Thomson Holidays and First Choice, by using this brands Passengers able to Book Flight tickets, Hotels and Holiday Packages with Cheapest Prices to Major European Countries

Responsibilities:

- Designing and implementing semi-structured data analytic platform leveraging Hadoop.
- Extensively used Hive/HQL or Hive queries to query or search for a particular string in Hive tables in HDFS.
- Worked on analysing Hadoop stack and different big data analytic tools including Pig, Hive, and Sqoop.
- Implemented Spark using Scala and Spark SQL for faster processing of data.
- Exported the analysed data to the relational databases using Tableau for visualization and to generate reports for the BI team.

PROJECT #5:

Title	: eCRS (electronic Credit Rating System)
Client	: National Australia Bank, Australia.
Location	: Hyderabad, India.
Duration	: January 2013 to January 2015.
Team Size	: 5
Role	: Junior Data Analyst

Description:

eCRS is an online Credit Rating System that helps the bankers/employees of NAB to take a decision about issuing loans to their respective customers (organizations). There are several external factors involved in this project in order to drive the banker to take a proper decision against issuing the loans to their customers. It's a web application with different roles aligned with different privileges to access the system. The data from this system would be pushed down to another project called GDW. So, the data extraction is a crucial process in this project.

Responsibilities:

- Developed SQL queries with various data sources like JSON, Parquet.
- Exploring and analysing data, performing Grouping, Aggregation and working with joins.
- Querying data using SQL operations.
- Responsible for test scripts generation, testing and validation.
- Have a good understanding of Software Development Life Cycle (SDLC), involved in various phases like Requirement gathering, Analysis/Design, Development and Testing. Also, knowledge in Test Driven Development (TDD) process.

PROJECT #6:

Title	: Grocer-kart
Duration	: June 2011 to November 2012
Tools Used	: Quality Centre, QTEST, SQL Server 2008.
Team Size	: 5
Role	: QA Analyst

Description:

Grocer kart is an online shopping portal they do save on the infrastructure costs that we would otherwise have to incur if we had a physical store. Since at Grocer kart, the customer always comes first, we have decided to pass on our savings to you in terms of discounts on products. Customer will realize that most products are priced lesser than the MRP.

Responsibilities:

- Have a good understanding of Software Development Life Cycle (SDLC), involved in various phases like Requirement gathering, Analysis/Design, Development and Testing.
- Responsible for test scripts generation, testing and validation.
- Analysing Functional Requirements, Gathering and managing the Test Data
- Effective test case writing and execution resulting in improved coverage
- Providing input/status updates regarding test progress/results
- Assist in the assessment and planning of test efforts required for new functions/features under development
- Designing Test cases using HP Quality Center and Executing Manually.