

# BHAGYA RAJU MARAPATLA

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## Professional Summary

Experienced Python Developer with 6 years of overall professional experience, including 3 years in IT. Skilled in ETL development, data migration, and backend web application development using Python and Django. Expertise in designing and optimizing SQL queries, and data pipelines. Proficient in AWS services (S3, Lambda, Glue, Step Functions), Apache Spark (PySpark), and SQL to process and migrate large datasets from on-premise to cloud environments. Successfully reduced AWS Glue execution time by optimizing queries and scripts. In ERP system development, implemented REST APIs, middleware, and error-handling mechanisms to enhance system efficiency and reliability. Strong problem-solving skills and ability to collaborate with cross-functional teams to ensure seamless data flow and system performance.

## Technical Skills

- **Programming Languages:** Python, SQL (PostgreSQL, MySQL)
- **Frameworks & Tools:** Django, Django REST Framework (DRF), Angular, Pandas, NumPy
- **ETL & Data Integration:** SQL scripts, PySpark, AWS S3, Redshift, Lambda, Step Functions, Glue
- **Version Control:** Git, GitHub
- **Developer Tools:** VS Code, Postman, Swagger.

## Professional Experience

### Datasteer – Python Developer

Nov 2022 – Mar 2025 / Remote

#### Project 2: ERP System Development (Django Backend)

Mar 2024 - Mar 2025

- Designed and implemented RESTful APIs using Python with Django and Django REST Framework (DRF), performing CRUD operations with robust data validation and error handling.
- Implemented utility functions in Python to reduce code redundancy and improve reusability, optimizing overall application efficiency.
- Developed middleware in Python to process JSON response data and export it into Excel, CSV, and JSON formats, enhancing data accessibility and flexibility for end users.
- Utilized Python alongside SQL Workbench for backend database operations, ensuring efficient API data integration and management.
- Contributed to an ERP project by leveraging Python for back-end functionality and supporting agile development processes through effective collaboration with team members.
- Built dynamic frontend components using AngularJS, HTML, and CSS, seamlessly integrating data between APIs developed in Python.

#### Project 1: Data Migration & ETL Development

Nov 2022 – Feb 2024

- Developed and deployed ETL pipelines using Pyspark & AWS services to process data from on-premises systems, stored it in S3, and loaded it into Redshift for analytics.
- Optimized ETL workflows, reducing Glue job execution time, improving system efficiency.
- Utilized Python and PySpark for scripting and data transformations, enabling seamless integration of complex data workflows.
- Optimized File Handling: Converted raw data into Parquet format for efficient storage and querying, reducing storage costs and query times.
- Leveraged AWS services such as Lambda, SNS, IAM roles, and Step Functions to orchestrate workflows and automate data processes.
- Worked extensively with PostgreSQL and SQL Server to manage and query large datasets, supporting advanced analytics for business decision-making.

- Contributed to enhancing business intelligence by enabling better analytics through accurate and timely data availability.
- Automated data extraction, transformation, and loading (ETL) processes using Python and SQL scripts.
- Ensured data accuracy and consistency by implementing validation checks and reconciliation reports.
- Collaborated with data analysts and business teams to understand data mapping and transformation requirements.

#### **Linkwell Telesystems Pvt Ltd – Quality Engineer**

*Apr 2022 – Nov 2022/ Hyderabad*

- Conducted comprehensive testing on 1-phase and 3-phase energy meters, including tampering, impulse, high voltage, spark, vibration, environmental, and DC tests.
- Performed rigorous performance assessments to ensure energy meters met industry standards and specifications.
- Maintained detailed records of test results, ensuring data accuracy and compliance with internal and external quality standards.

#### **Tarakrama Infratech Pvt Ltd – Electrical Engineer**

*Jun 2018 – Dec 2021/ Bapatla*

- Led the execution of electrical installations in accordance with CAD drawings and project specifications.
- Coordinated with project managers, designers, and other teams to ensure seamless integration of electrical systems.
- Conducted quality checks and inspections to confirm compliance with safety standards, local regulations, and project requirements.

### **Education**

#### **B.Tech in Electrical and Electronics Engineering**

*2015 – 2019*

SRKR Engineering College - Bhimavaram, Affiliated to Andhra University | 62.7 %

#### **Diploma in Electrical and Electronics Engineering**

*2011 - 2014*

Smt.B.Seetha Polytechnic - Bhimavaram, State Board of Technical Education and Training | 68.5 %

### **Certifications**

- Python Certification

### **Projects**

#### **ETL Pipeline for Bank Data Processing:**

- Developed an automated ETL pipeline to process and load bank data into Redshift, reducing data processing time by 40%.
- Created scalable ETL workflows using AWS Step functions, automating data processing from on-premises systems to Redshift.
- Reduced execution time, leading to faster data availability and improved business intelligence.

#### **ERP System Development:**

- Improved query performance and reduced response times by 50% through indexing and query tuning.
- Streamlined operations by automating data handling and enabling seamless integration between APIs.

### **Additional Information**

- Open to learning new technologies and taking on challenging roles in data engineering and database development.
- Strong problem-solving skills and ability to work in a fast-paced environment.