# Darwin Mariappan

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## EXPERIENCE

☐ **1.5 Year** of experience specialization in **Cloud AWS, Snowflake, Databricks, SQL Server, Python)**, Database developer, Software Development (**Java**, **React, spring Boot)**

## TECHNOLOGY

- **Snowflake**
- **AWS**
- **Databricks**
- **SQL Server**
- **Python**
- **PySpark**
- **Java**
- **Spring Boot**
- **React**

## EMPLOYMENT

**Arthur Grand Technologies**
**Software Engineer**
*(Sep 2023 – Till Date)*

## CERTIFICATIONS

**Aws Solution Architect**

**IBM Data Engineering Python**

## EDUCATION

**Bachelor of Science (BSC)**
(*Computer Science)*

**Master of Computer Applications**

**(MCA)** –Pursing

## OVERVIEW

A highly effective Software Engineer with over **1.5 Year** of IT experience specialization in working with **Cloud AWS, Databricks, Snowflake, SQL Server, Python**), Data Integration Engineering. Extensively involvedthe **development** project.

## ACHIEVEMENTS

- **Cost Saving and Innovation** - Create and build a data Migration framework **"UMR - Data Strategy"** with generic solution to move the data from **SQL Server to Cloud Snowflake.** UMR team recognized and filed the Data strategy reporting projects

- **Testing Automation** – Create the automated testing scripts to enable the Data Quality Check.

- **ELT Simplification** –Developed **Shell and Python script** to perform **Data Integration** from **SQL Server to Cloud Snowflake.**

- **Database Administration** – Create and maintenance a warehouse, database, Schema, tables, views, function, stored procedure, role and effective database monitoring to provide proactive support.

- **Software Development** - Developing and testing the timesheet application for us federal government, I have multiple ideas from knowledge about application development.

## Responsibilities

- Develop **database, ETL/ELT designs**, and other related databases to accommodate new requirements

- Expertise in Snowflake – data integration, ELT using Snowflake SQL, implementing the Stored Procedures and ETL concepts.

- Experience with **Snowflake** utilities, **Snow SQL, Snow Pipe, Snow sight** and Data modeltechniques using Python.

- Create common python/shell scripts and rules for Data move from Source to target layer Data Quality checks.

- Downstream Impact Assessment for the existing tables and ensure that the new changes are not impacted downstream applications.

- Take Care of the Database design and implementation

- Controlling access permissions and privileges (create and maintain users and roles)

- Create a script to purge table data using snowflake task

- Analytical skills for design of experiment, **data analysis, and reporting**

**Project:**

**UHG - United Medical Record** -Data Ecosystems

**Timesheet Application**

**Customer Purchase-Analytics Pipeline**

**Role: Software Engineer**

**Technology:** AWS, Snowflake, Python, Databricks, Java, React, Spring boot, Restful API

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**ETL/ELT Data Integration**

- Write **Databricks notebook** using Scala/Python, SQL Scripts, Joins, Task, Streams, Stored Procedure, Functions, Views.

- Experience with **Snowflake** utilities, **Snow SQL, Snow Pipe, Snow sight** and Data model techniques using Python

- Create/Develop the Databricks workflow to perform ETL for data load to target database Systems

**Application Development**
**React:**

- Developed and maintained reusable React components, improving code maintainability and reducing development time.

- Implemented authentication and authorization flows with JWT (JSON Web Tokens) and OAuth, ensuring secure user access and data protection.

**Spring Boot:**

- Developed and maintained RESTful APIs using Spring Boot, enabling seamless communication between front-end applications and backend services.

- Configured and managed application properties and profiles, enabling flexible and environment-specific configurations.

- Developed API documentation using Swagger/Open API, facilitating easy integration and usage of APIs.

- Designed and implemented complex database schemas using Hibernate Entity classes, ensuring efficient data modeling and persistence.

- Implemented transactional operations using Spring's @Transactional annotation, ensuring data consistency and integrity during complex business operations.

- Configured and managed Hibernate session factories and entity managers, ensuring efficient session handling and lifecycle management.