

Osama Hassan

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PROFESSIONAL SUMMARY

Software Developer with **3 years of experience** in **Java** and **Python**, specializing in Object-Oriented Principles. Skilled in building scalable systems, with experience in databases (**Postgres, SQL, MongoDB**) and tools like **Spark, Hadoop**, cloud storage, and big data tools. I am passionate to take on challenges, think creatively, and turn ideas into code.

EDUCATION

National Institute of Technology | Bhopal India 2018 - 2022
B.Tech. in Computer Science Engineering

SKILLS

Languages: Java, C/C++, Python, SQL

Tools/Platforms: Spring Boot, Maven, Git, Jenkins, IntelliJ, MongoDB

Big Data & Cloud: Spark, Hadoop, Hive, Trino, Kafka, Snowflake, AWS, GCS, Azure, Databricks, Airflow, NiFi

Core Skills: OOP, Data Structures & Algorithms, DBMS, SQL & NoSQL, System Design, Operating Systems

EXPERIENCE

Cars24 | Software Engineer Feb 2024 – Present

- Built and optimized data pipelines (BigQuery-to-Snowflake, GCS/AWS S3-to-Snowflake/Iceberg) using Apache Spark, Trino and Python.
- Integrated Kafka data flows with Snowflake, Iceberg, and StarRocks using Spark and Kafka Connectors.
- Automated data transfer between Google Sheets and Snowflake using Google Cloud Functions and Python.
- Automated creation, updates, and scheduling of Snowflake stored procedures using Python, SQL, and Bitbucket, with logging, error handling, and notifications, along with a Streamlit web app for easy management.
- Toolset :** Python, SQL, Kafka, Trino, Git, Apache Spark, Hive, Snowflake, Iceberg, Bigquery, API

Airtel Africa | Software Engineer Jan 2022 – Nov 2023

- Devised Big Data Deletion Life Cycle Module in Java for Raw, Silver, and Gold Layer Applications, reducing storage expenses and added support for Cloudera Storage policies.
- Enhanced HDFS partition deletion by 70% through improved Clean Empty Partition logic and optimized Hive's partition dropping functionality by refining Trino's Java implementation, reducing query execution times by 50%.
- Implemented Kafka Sink Writer in Java to make Big Data Life Cycle more dynamic.
- Used NiFi APIs for seamless production upgrades and bulk processor property updates with Python and Shell.
- Enhanced NiFi data flows for exception handling, deduplication, detailed logging, and regex-based data routing.
- Implemented Apache Spark-driven data pipelines for expedited insights and leveraged Apache Airflow for streamlined and automated ETL workflows, fortifying data pipeline reliability and resilience.
- Toolset :** Java, Python, SQL, Rest API, Maven, Hadoop, Kafka, Spark, Hive, PostgreSQL, Trino, Git, NiFi

PROJECTS

JobConnect Portal Nov. 2023

- Developed a full-stack Job Portal using **Spring Boot 3, Thymeleaf, MySQL**, and **Spring Security**, supporting role-based access for recruiters and job seekers.
- Designed a **JPA/Hibernate** database for efficient management of profiles, job listings, and applications, with **RESTful APIs** for job posting, search, and applications, including file upload for resumes and profiles.
- Built a responsive UI with **Bootstrap** and **jQuery** via **WebJars** and integrated real-time, keyword-based search with **Thymeleaf** for seamless job discovery.
- Toolset :** Spring Boot, Spring Security, JPA, Thymeleaf, MySQL, Bootstrap, jQuery, WebJars, Maven

ACADEMY ACHIEVEMENTS

- Ranked in the top **0.5% percentile** among all students who participated in JEE Main 2018.
- Secured **Gold Badge** (100 Geektrust Score) in Geektrust LedgerCo Challenge for excellent performance in Object-Oriented Modelling, Solid Principles, Correctness, Readability, Maintainability, and Unit Test Cases.