Tushar Mukker

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Enthusiastic computer engineer demonstrating a strong commitment to innovative problem-solving and a passion for designing and delivering diverse services tailored to various industries

EDUCATION

Masters in Electrical and Computer Engineering	Jan 2023 − Aug 2024
*Concordia University **(GPA: 3.94/4.3)***	*Montreal, Canada*
Bachelors in Electronics and Communication	Aug 2017 − July 2021
Guru Nanak Dev University	*Amritsar, India*

TECHNICAL SKILLS

Programming:	Python, SQL, HTML, CSS
Frameworks:	Vue.js, SpringBoot, gRPC, React
Databases:	MySQL, Snowflake, MongoDB Compass, Redis Cloud, Oracle
Developer Tools:	Matillion, Snowflake, AWS, Informatica Power Center, Apache Kafka & Spark, Azure DevOps, Alteryx, Power BI, JIRA, Confluence, Fivetran, Postman, Figma, Databricks, Trello, Tableau
Certifications:	Matillion Associate Certification, Databricks Lakehouse Fundamentals Certification, AWS Certified Cloud Practitioner Certification (Udemy)

WORK EXPERIENCE

Digital Engineering Analyst	Jul 2021 − Oct 2022
NTT Data Company	*Pune, India*

- Developed, tested and maintained more than **1500 ETL jobs** (ERP, Non-ERP) using Matillion, Informatica and SQL
- **Led a team of 12 IT specialists** on a built-from-scratch project of Salesforce Integration that successfully **met 92% of project deadlines** in Q4, 2021
- **Achieved 60% performance optimization** for the client by implementing change data capture (CDC) and delta detection logic which majorly helped the client to save high cost and storage
- Designed, tested and implemented program logic and communicated directly with the client in order to implement them and resolved queries using Azure Devops and Snowflake
- **Saved 1.5 Hours/day** of manual effort of each team member by creating an Email notification system for entire transformation and orchestration jobs
- Analyzed data workflows to identify opportunities for improvement, resulting in a **30% increase** in data reliability and a **20% reduction** in data processing time
- Successfully migrated Oracle data to Snowflake, **improving query efficiency by 25%** for BI tools like Tableau
- Experience in designing and building dimensional data models to improve accessibility, efficiency and quality of data & worked across all phases of SDLC

Python Developer Intern	Jan 2021 − June 2021
Netmax Technologies	*Chandigarh, India*

- Trained in programming languages like Python, Machine learning, HTML, CSS and bootstrap
- Implemented tasks on a daily basis including both front and back-end
- Led the team of 3 developers on a project called "Drowsiness Detection System"
- Hands on experience with implementation of Machine learning, Python using numpy, cv2, os, tensorflow.keras for loading pre-trained deep learning models

Python Trainee	Jun 2019 − Jul 2019
Society for promotion of Information Technology (SPIC)	*Chandigarh, India*

- Completed a six-week industrial training in Python, focusing on the development of a "Stock Management" project
- Led a team of two in implementing the project, utilizing Python for front-end development and employing SQL Server for backend operations.

Projects

Stock Market Real-Time Data Pipeline | *Apache Kafka, AWS Athena, Python, SQL*   Apr 2024
GitHub
- Implemented a streaming data pipeline using Apache Kafka to ingest and process real-time stock market data from a Kaggle dataset
- Utilized Apache Kafka, Python, SQL, and AWS services to perform data transformations and create data visualizations

TourEasy | *Java, UML Diagrams, OCL Constraint*   Mar 2024
GitHub
- Led a team of 6 in pioneering the continuous development of TourEasy, implementing Object Constraint Language (OCL) principles for robust tour management
- Directed the implementation of user-friendly features in TourEasy, such as personalized profiles and efficient guide matching, ensuring an outstanding tour booking experience

Spotify Data Pipeline | *Python, AWS (CloudWatch, Lambda, Glue, Athena)*   Jan 2024
GitHub
- Automated detailed track extraction and transformation using AWS Lambda, Spotipy, and pandas
- Orchestrated a scalable end-to-end ETL pipeline on AWS, integrating Lambda, CloudWatch, Glue, and Athena for efficient data processing and querying

AutoGaurd | *Python, AWS (Cloud AI Rekognition, Lambda, S3, CodeBuild, DynamoDB)*   Nov 2023
GitHub
- Led a team of 3 in building a serverless AWS Lambda-based solution utilizing Rekognition for vehicle registration and authentication, integrated with DynamoDB for user data storage
- Constructed RESTful architecture design, CI/CD with AWS CodeBuild for continuous integration and deployment, complemented by SwaggerHub for efficient API documentation in the project

MongoDB - Redis Aggregation Pipeline | *Python, MongoDB, Redis Cloud*   Oct 2023
GitHub
- Implemented a data retrieval and analysis solution leveraging MongoDB's document-oriented structure and Redis Cloud's in-memory caching to streamline querying processes and enhance performance
- Achieved 97.4% faster response times by utilizing pre-loaded Redis cache, highlighting caching's significant impact on system efficiency compared to querying MongoDB directly

Leadership / awards / extra curricular activities

- Achieved **Matillion Associate Certification**
- Earned the **Databricks Lakehouse Fundamentals Certification**
- Attained **Building a Data Warehouse using Matillion Certification by Matillion**
- Attained **Knockdown the Lockdown certification** by TCS ION through the Career Edge program
- Team lead for organizing weekly Bhangra dance workshops at Concordia University
- Dedicated core member of the Electronics Student Forum (ESF) for 3 years
- **Led a 30-35 member team** in organizing on-campus placement drives for **over 1000 students** (graduating classes of 2017-2020), collaborating with various multinational corporations (MNCs)
- Organized and facilitated **workshops for over 1000 students** from diverse companies
- Head of the organizing committee for Tachyon 2.0, Guru Nanak Dev University's Techno-Cultural Fest
- Committed **3-year team head** of ECOSMOS - The Green Army, a Nature and Wildlife society at Guru Nanak Dev University