

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 <i>Concordia University (GPA: 3.94/4.3)</i>	Jan 2023 – Aug 2024 Montreal, Canada
Bachelors in Electronics and Communication <i>Guru Nanak Dev University</i>	Aug 2017 – July 2021 Amritsar, India

TECHNICAL SKILLS

Programming:	Python, SQL, HTML, CSS
Frameworks:	Vue.js, SpringBoot, gRPC
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 <i>NTT Data Company</i>	Jul 2021 – Oct 2022 Pune, India
<ul style="list-style-type: none">Developed, tested and maintained more than 1500 ETL jobs (ERP, Non-ERP) using Matillion, Informatica and SQLLed a team of 12 IT specialists on a built-from-scratch project of Salesforce Integration that successfully met 92% of project deadlines in Q4, 2021Achieved 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 storageDesigned, tested and implemented program logic and communicated directly with the client in order to implement them and resolved queries using Azure Devops and SnowflakeSaved 1.5 Hours/day of manual effort of each team member by creating an Email notification system for entire transformation and orchestration jobsAnalyzed data workflows to identify opportunities for improvement, resulting in a 30% increase in data reliability and a 20% reduction in data processing timeSuccessfully migrated Oracle data to Snowflake, improving query efficiency by 25% for BI tools like TableauExperience in designing and building dimensional data models to improve accessibility, efficiency and quality of data & worked across all phases of SDLC	
Python Developer Intern <i>Netmax Technologies</i>	Jan 2021 – June 2021 Chandigarh, India
<ul style="list-style-type: none">Trained in programming languages like Python, Machine learning, HTML, CSS and bootstrapImplemented tasks on a daily basis including both front and back-endLed 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 <i>Society for promotion of Information Technology (SPIC)</i>	Jun 2019 – Jul 2019 Chandigarh, India
<ul style="list-style-type: none">Completed a six-week industrial training in Python, focusing on the development of a “Stock Management” projectLed 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