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Top Skills

Microsoft Azure
MySQL
Snowflake

Languages

English (Native or Bilingual)
Hindi (Native or Bilingual)
Punjabi (Native or Bilingual)
German (Elementary)

Certifications

Preliminary Asteroid Discovery
JavaScript Fundamentals
Interskill - Mainframe Specialist - SDSF
Interskill - Mainframe Specialist - Mainframe Utilities and VSAM
TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Honors-Awards

Best Project
Associate of The Month

Publications

Image Watermarking Using LTP and DCT

Tushar Kapoor

Data & Engineering | Ex Amazon | AWS | Blockchain | Machine Learning | Big Data | Azure | GCP
Toronto, Ontario, Canada

Summary

Passionate and results-driven data engineering leader with a strong background in software development and machine learning, I've spent years transforming the way businesses harness the power of data. As a trusted advisor and mentor, I've built and coached high-performing teams in some of the world's top organizations, like Best Buy and Amazon.

My journey began in Bangalore, India, where I sharpened my skills as a System Programmer at IBM, working on DB2 OS and data archiving. I then ventured to Vancouver, Canada, where I pursued a Master's degree in Computer Science, focusing on Big Data. This paved the way for my work at Best Buy, where I played a pivotal role in designing and implementing Cloud Data Lakes and API-based pricing services.

At Amazon, I was part of creating innovative data pipeline automation tools and ensuring compliance with global privacy regulations like GDPR and COPPA. My expertise in Python, Java, Databricks, SQL, and more have empowered me to tackle complex infrastructure projects while nurturing a culture of innovation and collaboration.

My strengths lie in my ability to think strategically, solve complex challenges, and drive technical innovation while remaining hands-on with the tools and technologies I love. I'm always eager to learn, and my passion for natural language processing and big data propels me forward. With a touch of personality and a forward-thinking mindset, my future ambition is to lead and set vision for data products and tools.

If you're looking for a driven and accomplished data engineering leader with a track record of success and a keen eye for innovation, look no further. I thrive in fast-paced environments and excel at

bridging the gap between technology and business. My unique blend of technical expertise, team-building, and dedication to continuous improvement has been the cornerstone of my success thus far.

As we move into the future, I am excited to continue leveraging my skills in system design, machine learning, big data, and natural language processing to develop cutting-edge solutions that drive meaningful impact. I am committed to fostering an environment where collaboration thrives and talent is nurtured, as I firmly believe that the best ideas emerge from diverse perspectives and shared knowledge.

I invite you to connect with me to discuss potential opportunities or simply to exchange ideas about the ever-evolving world of data engineering and technology. Together, we can shape the future of data-driven decision-making and unlock new possibilities for growth and innovation.

Experience

talkshoplive®

Lead Data Engineer

April 2023 - Present (3 months)

Toronto, Ontario, Canada

Amazon

Software Development Engineer - 2

March 2022 - April 2023 (1 year 2 months)

Toronto, Ontario, Canada

- Spearheaded the development of a cutting-edge data pipeline automation solution, leveraging dynamic table creation, ETL, and ELT processes to significantly expedite tasks for developers and applied scientists throughout the Amazon Devices organization.
- Collaborated on an extensive auditing framework using Apache Airflow and AWS Lambda, ensuring Amazon Echo, Alexa, and FireTV devices adhere to global privacy regulations such as GDPR and COPPA, minimizing the risk of substantial financial and legal consequences due to non-compliance.
- Pioneered advanced data flows and libraries to gather critical device metrics, facilitating in-depth performance analysis and optimization. This data-driven

strategy enabled Amazon to implement strategic software updates, boosting product performance and customer satisfaction.

- Innovated data pseudonymization libraries to securely transform Personally Identifiable Information (PII) into a masked format, fostering customer trust and protecting privacy on Alexa devices.
- Skillfully employed AWS Glue to automate data set inference, streamlining data management and promoting seamless integration of diverse data sources to enhance decision-making capabilities.
- Implemented state-of-the-art CI/CD processes using AWS CDK (Cloud Development Kit) and CloudFormation for Infrastructure as Code (IaC), ensuring efficient application management and deployment, while reducing operational overhead.
- Established robust data collection, retention, and access control systems on DynamoDB and Amazon Redshift to promptly address DSAR (Data Subject Access Request) fulfillment in compliance with legal requirements and SLA expectations.

As a Software Development Engineer 2 at Amazon, my expertise in data engineering, software development, and the latest industry tools has been pivotal in driving innovation and optimizing product performance.

Best Buy Canada

2 years 11 months

Manager - Data Platform Products

December 2021 - March 2022 (4 months)

Canada

- Leading a team of high performing data engineers, responsible for leading the creation of a new data ecosystem (Lakehouse, Data Lake and Snowflake Data Warehouse) at Best Buy
- Developing the team roadmap and performing strategy planning
- Created a Roadmap to migrate Best Buy enterprise data to Azure Data Lake and Snowflake from on-premises legacy systems
- Setting up Best Practices for data engineering discipline (Microsoft Azure, Databricks, & DevOps)
- Leading the project for design and implementation of Cloud Data Lake for streaming/batch/real-time data, for machine learning and near real-time analytics workloads for the entire organization
- Leading the interview and selection process for consultants and full-time employees
- Standing up the Data Engineering Practice at Best Buy

Technical Lead Data Engineering - Cloud

March 2021 - December 2021 (10 months)

- Leading the technical area data engineering for new initiatives, laying best practices, big data projects, and business use case solutions
- Leading the project for design and implementation of Cloud Data Lake for streaming/batch/real-time data, for machine learning and near real-time analytics workloads for the entire organization
- Leading the initiative of implementing Qlik (Attunity) Replicate, for log-based CDC for Oracle/SQL DBs to bring near real-time data to the data lake
- Designing & implementing self-serve solutions for the Data Lake & DWH
- Close involvement with the leaders for team roadmap and strategy

Cloud Data Engineer

January 2020 - March 2021 (1 year 3 months)

Vancouver, Canada Area

- Creating the architecture of Cloud Data Landing Zone for streaming, transactional, data storage and real-time analytics
- Creating spark and python notebooks on Databricks for Machine Learning, product recommendation and other business use cases
- Creating cloud ETL pipelines using Azure Data Factory
- Designing and implementing effective self-serve cloud solutions & data models
- Developing rest APIs using python, Cosmos DB and serverless apps
- Winner of Hackathon – SPARK at Best Buy Canada

Data Engineer Intern

May 2019 - December 2019 (8 months)

Vancouver, Canada Area

- Data Scientist at search Find optimization team.
- Creating big data ETL pipelines using PySpark & Data factory on Azure Cloud

IBM

System Programmer

January 2018 - June 2018 (6 months)

Bengaluru Area, India

- Executed system installation & maintenance/upgradation of the OS
- Analyzed, designed and created new JCL JOBS for the maintenance
- Handled performance and capacity management

Microsoft

Microsoft Student Partner

September 2015 - June 2017 (1 year 10 months)

Gurgaon, India

The Microsoft Student Partners is a worldwide recognizable program to sponsor students majoring in disciplines related to technology. The MSP program enhances students' employability by offering training in skills not usually taught in academia, including knowledge of Microsoft technologies.

Sopra Steria

Software Engineer Intern

May 2016 - July 2016 (3 months)

- Developed plugin for SonarQube to process Scala which helped the team to successfully process Scala in SonarQube using Java
- Developed an Employee management system for the team, which was developed using Primefaces, Hibernate Framework, and Maven

HCL Technologies

Intern

May 2015 - July 2015 (3 months)

Education

Simon Fraser University

Master of Science - MS, Computer Science, Big Data

Specialization · (2018 - 2020)

Amity University Noida

Bachelor of Technology (BTech), Computer Science · (2013 - 2017)