CONTACT

- 📞 +31 684157694
- ✉️ khushbu.agrawal18@gmail.com
- 📍 Almere, Netherlands
- 🌐 https://www.linkedin.com/in/khushbu-agrawal-1407bb10/

EDUCATION

B.E. , Computer Science
Guru Ghasidas University, Bilaspur, India

SKILLS

- Data Engineering
- ETL Development
- Cloud Migration
- Data Warehousing
- Data Quality Frameworks
- Real-Time Analytics
- Micro-services
- Data Modeling
- Team Leadership & Coaching

TOOLS & TECH

- Databricks
- AWS techstack
- Python/TypeScript
- Spark
- Airflow
- DBT/SQL
- Docker
- Kinesis/Kafka
- ElasticSearch/Opensearch
- DynamoDb/ Teradata/ Snowflake
- Tableau
- CI/CD

KHUSHBU AGRAWAL

SENIOR MANAGER, DATA ENGINEERING

PROFILE

Seasoned engineering leader with 17 years of experience driving innovation through data-driven solutions. Proven expertise in managing teams, architecting scalable data platforms, and delivering impactful, enterprise-grade solutions. Adept at aligning technology strategies with business objectives to achieve measurable results

OVERVIEW

- **Defined and executed a strategic vision** for developing robust and scalable data engineering at Atlassian, aligning data initiatives with overall business objectives and fostering a culture of data-driven decision-making.
- **Established best practice**s by creating standards and guidelines for design, development, deployment, support, and analytics across data platforms.
- **Architected innovative solutions** leveraging Medallion and Data Mesh frameworks, to enhance scalability and optimize data management.
- **Championed streaming and API-first approach** to building a scalable, real-time transactional platform using a microservice-based platform, enhancing support efficiency and elevating customer satisfaction at Atlassian.
- **Continuously coached teams** to foster a deep understanding of business problems and align technology solutions to address them effectively
- **Established a culture of innovation** by championing best practices, mentoring team members, and spearheading initiatives like hackathons to foster new ideas and improve developer productivity.
- **Featured speaker** at the Real-time Analytics Summit, USA, where I presented a cutting-edge real-time architecture

WORK EXPERIENCE

Atlassian, Netherlands — DEC 2020 - TILL DATE
Senior Engineering Manager

NextGen Data Warehouse

- **Architected** a scalable enterprise data warehouse leveraging Medallion and Data Mesh principles
- **Managed and mentored a high-performing team of 15+ engineers,** fostering a collaborative and innovative work environment.
- **Championed the adoption** of DBT, achieving a 25% reduction in manual SQL transformation errors through programmatic, reusable pipelines.
- **Standardized** workflows with centralized repositories using **Cookiecutter** and Docker, increasing team productivity by **35%** and streamlining processes.

Realtime Transactional System
- **Directed the strategy and execution** of a real-time transactional system that improved Atlassian's operational excellence, enhancing support efficiency and customer experience.
- Enabled marketplace vendors to gain actionable insights into product performance, driving a 15% increase in sales conversion rates.
- Spearheaded innovations such as a centralized Dead Letter Queue (DLQ) management tool, boosting operational efficiency by 40% and saving 20+ hours weekly on manual tasks.
- Ensured seamless container-based deployments with Docker and CI/CD pipelines, reducing deployment errors by 15%.

Centralized Egress Solution
- **Led the design of a centralized**, streaming-based platform to integrate analytical and operational databases, eliminating 20+ redundant pipelines and significantly reducing maintenance overhead.
- Collaborated with cross-functional teams to align the solution with broader organizational goals, delivering improved data accessibility and insights.

Real-Time Operational Analytics
- **Redesigned the Symphony ticketing management** system to deliver real-time operational insights via a hot-tier database (StarRocks).
- Simplified the technology stack by removing redundant systems, improving performance, and aligning the platform with business needs for better decision-making.

Groupon, Bangalore, India

FEB 2017 - DEC 2020

Lead Data Engineer

Commerce Data Pipeline
- **Led the design and implementation of end-to-end ETL** pipelines to ingest, transform, and load data from multiple sources into the data warehouse, improving data availability and consistency for business reporting.
- **Optimized Teradata queries and indexing, resulting** in a 45% reduction in query execution time and a 30% improvement in overall data processing efficiency.
- **Spearheaded initiatives that improved** data accuracy by 25%, empowering business stakeholders to make data-driven decisions faster.

Cloud Migration
- **Led the migration of a 10+ PB** data warehouse with 200+ pipelines from on-premise Teradata to AWS, accelerating the cloud transformation journey.
- Redefined Teradata SQL logic into optimized Spark DataFrames, achieving a 30% improvement in query performance.
- Developed a Python-based Data Quality Framework, increasing data validation efficiency by 40% and significantly enhancing stakeholder confidence in migrated datasets.

LTI, Bangalore, India

JULY 2012 - FEB 2017

Lead Data Engineer

- **TimeWarner**: Worked for a US-based media partner as a domain architect and modeller. Spearheaded the development of robust ETL pipelines, reducing data processing time by 35% by re-modelling and enhancing data quality. Collaborated with cross-functional teams to ensure the technical solution met business needs.
- **Dagrofa**: Worked for a Europe-based Retailer to convert business requirements into technical solutions and improve the efficiency of their data pipelines. Optimized over 50 ETL pipelines, reducing processing times by 40% and cutting operational costs by 20%. Implemented quality controls that improved data accuracy by 30%, ensuring system consistency.

TESCO HSC, Bangalore, India

APR 2008 - JULY 2012

Senior Software Engineer

- **ETL Development Expertise**: Specialized in ETL Data Pipeline development using a comprehensive tech stack, including Teradata, Linux Shell Scripts, Mainframe, Microstrategy for reporting and file-based source systems.
- **Diverse Project Contributions:** Played a key role in various projects, encompassing Data Warehouse development and Data Migration, showcasing adaptability and proficiency across different aspects of data engineering.