TEGSHBAYAR GANBAT

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DATA ENGINEER

Experienced Data Engineer with over 10 years of expertise in data modeling, pipeline development, and maintaining data warehouses by leveraging cloud platforms like AWS and Azure. Skilled in designing scalable, high-performance solutions with AWS services, Kafka, Python, Spark, and PostgreSQL. Proficient in managing projects, collaborating with teams, and delivering end-to-end solutions. Strong leadership, mentoring, and communication abilities, with a proven track record of fostering collaboration and driving innovation.

● Data Architecture and Design ● Big Data ● Cloud Computing ● Database Management ● Warehousing
● Data Governance and Quality ● CI**/**CD workflows ● Analytics and Reporting

Languages: Python, SQL
Web/App Servers: AWS services
Databases: MS SQL, PostgreSQL
SDLC: Agile
Tools: Visual Studio Code, PyCharm, MSQLSMS, PowerBI, GitHub, Jira, Asana, PowerShell, SAP BI, Tableau, Azure, AWS, IntelliJ, DB Workbench,
Platforms: Windows, Linux
Big Data: Hive, Hadoop, Spark
Application/Software: SAP

PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

OYU TOLGOI, Ulaanbaatar, Mongolia ● 05/2023 – 04/2024
The Biggest mining company in Mongolia.

Senior Data Engineer
Develop ETL pipelines, create data model, create reports, develop applications
- Migrated enterprise data platform from on-premise systems to Palantir Foundry Cloud, leveraging MSSQL, which improved data accessibility and scalability while ensuring seamless transition.
- Restructured and optimized datasets within Palantir Foundry, achieving a 50% faster data retrieval time and improving data workflows.
- Enhanced analytics subsystems by optimizing data models using EasyMorph, PowerShell, and schema techniques, integrating 50+ data sources and creating over 100 detailed datasets.
- Designed and delivered 20+ key ontologies on Palantir Foundry Cloud using Python, ensuring alignment with business requirements.
- Streamlined data capture workflows with automation tools like python scripts and azure services, leading to a 35% improvement in data availability for processing modules.
- Developed advanced data models in MSSQL with Python scripts to generate insightful reports, enhancing data-driven decision-making efficiency by 40%.

Technologies Used: *MSSQL, Foundry, Azure, PowerBI, Python, PowerShell, EasyMorph, SSIS, SSAS, Erwin Data Modeler.*

RIO TINTO, Ulaanbaatar, Mongolia ● 01/2019 – 05/2023
Information and technology department at the multinational mining company.

Data Specialist
Develop cloud pipeline, review the system performance, resolve adhoc request, database management
- Conducted data audits for the Azure-hosted data lake using PowerBI and Python, removing unused resources to optimize storage and improve efficiency.
- Implemented a new data model for consolidating large fact tables using SQL, SSIS, and ETL tools, enhancing data visualization capabilities and improving reporting efficiency by 35%.

- Maintained 100% customer satisfaction by resolving data-related issues promptly using Jira for tracking and ensuring timely solutions.
- Built a real-time dashboard using Grafana and MSSQL Workbench to monitor long-running datasets and identify stuck jobs in the data processing subsystem, improving issue resolution by 50%.
- Optimized SAP reports with ABAP programming, enabling compatibility with special characters for international customers, enhancing global usability.
- Improved the analysis dashboard for the data lake using PowerBI, identifying and removing least-used ad-hoc datasets, achieving cost savings through efficient resource management.
- Developed comprehensive technical documentation for data workflows and dataset integrations, reduced new employee onboarding time by 50% and ensuring consistent knowledge sharing.
- Facilitated knowledge transfer sessions on dataset discovery and self-service tools like SAP Lumira and Yammer, enhancing end-user autonomy and reducing support inquiries.

Technologies Used: *AWS, Azure, MSSQL, Jira, Python, MSSQL Workbench, Jira, PowerBI, Grafana, EasyMorph,, SSIS.*

RIO TINTO, Ulaanbaatar, Mongolia • 01/2015 – 01/2019
Information and technology department at the multinational mining company.

Report Analyst
- Identified the major errors in the production reports and implemented solutions for faster access with more accurate data
- Have good skills in scripts/processes for using S3/Redshift/Data portal as a platform for BW/non-BW data reporting outside of BW
- Replicated production reports/dashboards using the PowerBi tool and migrated the reports into production
- Resolved around 200 technical tickets in ServiceNow with 100% customer satisfaction
- Improved warehouse data workflow functionalities by updating the existing ABAP class, function modules, and BW transformation codes.
- Documented technical workflows and trained new colleagues.

Technologies Used: *AWS, MSSQL, Jira, SAP ABAP, SAP Lumira, MSSQL Workbench, Tableau, Grafana, SAP Query Designer, EasyMorph, Yammer, SSIS.*

ACADEMIC PROJECTS

Maharishi International University (2024)
Livestock Market Report: Implemented a real-time data pipeline using Kafka to capture stock market data for the top 10 companies from a live market website, ensuring seamless and continuous data ingestion. The collected data was stored in Hive, enabling efficient storage and querying for large-scale datasets. Spark was utilized to process and transfer the data to PowerBI, where it is visualized to display stock trends and historical data, offering actionable insights for strategic decision-making. Utilized Java Maven within a virtual machine environment to develop and deploy Kafka and Spark jobs, while managing and configuring Hive instances through the Hadoop Management Console for optimized data processing and storage. Utilized Kafka, Hive, Spark, PowerBI.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 12/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Big Data Technologies, Machine Learning, Cloud Computing

Bachelor of Science in Information Systems
Mongolian University of Science and Technology, Ulaanbaatar, Mongolia (05/2012)

CERTIFICATIONS

AWS Data Engineer Associate (08/2024)
AWS Solution Architect Associate (01/2020)
Azure Fundamentals