

Tim Tsenguun

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<https://tsenguuno.github.io/portfolio/>

Data Analytics Engineer

Data Analytics Engineer with over 6 years of experience in **data analysis**, **data engineering**, and **business intelligence**. Proven ability to build impactful dashboards and streamline data pipelines in mining and industrial sectors. Skilled in **SQL**, **Python**, **Tableau**, **Power BI**, and **FastAPI**. Passionate about turning data into actionable insights.

SKILLS

Programming Languages: Python, SQL, HTML, Javascript

Data Engineering Tools: PySpark, Docker, FastAPI, FlaskAPI, Git, dbt

Data Visualization: Tableau, Power BI, QuickSight

Databases: PostgreSQL, MySQL, Microsoft SQL Servers, SQLite

Cloud Tools: S3, Athena, Redshift, RDS

Other Tools: PowerApps, Power Automate

WORK EXPERIENCE

Maptek Pty Ltd • Sydney, NSW

Data Analytics Engineer • Full-time

10/2024 - 01/2025

- Improved **QuickSight dashboards** to monitor customer engagement, track user activities, and identify product usage trends.
- Created **Boto3 Python scripts** and **CLI commands** for monitoring QuickSight assets and authors activities
- Developed a **standard naming convention** for consistent asset organization in QuickSight
- Maintained data pipelines in AWS and optimized views for improved performance.

Rio Tinto, Oyu Tolgoi project

Specialist Data and Systems • Full-time

10/2016 - 01/2022

- Enabled data based decision-making by producing over **100 Key metrics reports and dashboards** in **Tableau and Power BI**
- Improved data governance of key mining systems by developing **standard naming convention**, optimizing data pipelines and data validation scripts and reports
- Developed applications using **PowerApps**, leveraging **Power Automate** to extract information from SharePoint and export it to spreadsheets for streamlined data management.
- Collaborated with cross-functional teams to implement optimizations in existing **RDS database** queries and reports, enhancing performance and user experience
- Managed **control room IT equipment and systems**, overseeing personnel to ensure 24/7 operational readiness while enhancing ergonomic design for improved efficiency and comfort.

Data Analyst • Full-time

10/2016 - 09/2020

- Integrated and build **data pipeline** between the concentrator and mining (**Mine To Mill**), eliminating manual processes, erasing data duplication, improving data quality, and enhancing supply chain decision-making.
- Enhanced **query tuning** process all over system databases, by collaborating with **system providers to improve data structure** in 1.5 years (CAT, Modular mining, Hexagon MinePlan and Maptek Vulcan etc)
- Developed low-code applications for internal surveys and request forms using **PowerApps** and **Power Automate**, integrating data for the Department People KPI Report.
- Developed daily, weekly, monthly, and annual live **dashboards in Tableau and PowerBi** for operation and management teams, ensuring data validation and integrity throughout all dashboards.

MCS International LLC

Automation Engineer • Full-time

09/2013 - 06/2015

- Troubleshoot and improve Programmable Logic Controller (**PLC**) of 18-megawatt power plant, heat plant, and water filter plant and increased **EU by 20%**
- Diagnose the problem in **PLC, HMI, SCADA, DCS, and Process instruments** for Industrial Automation
- Increased effective utilization of automatic mode of water pump **by 15-20% by improving reliability** of PLC within 1.5 year

EDUCATION

University of New South Wales (UNSW)

Master in Information Technology - Data Science and Engineering • Sydney, NSW

05/2022 - 06/2024

MUST

Bachelor in Computer Embedded System • Ulaanbaatar, Mongolia

09/2009 - 06/2013

PROJECTS

Anomaly Detection in Data Pipeline	04/2024 - Present
UNSW	
<ul style="list-style-type: none">Constructed a backend with Flask and MySQL, managing data flow and user authentication securely.Integrated multiple unsupervised machine learning algorithms including Isolation Forest, Auto Encoder, and K Means to detect anomalies with high precision.	
Music Genre Classification	11/2023 - Present
UNSW	
<ul style="list-style-type: none">Developed LSTM and Bidirectional LSTM models to classify song genres (pop, rock, hip-hop) based solely on lyricsAchieved 68% accuracy with LSTM model, outperforming baselines on minority genres	
Mine To Mill Integration	01/2019 - 10/2020
Rio Tinto	
<ul style="list-style-type: none">Extracted data from multiple mining systems and designed a centralized databaseIntegrated the mining database with the mill database, improving operational efficiency across departments.Designed and implemented ETL processes	

CERTIFICATIONS

AWS Certified Data Engineer Associate 2025 - Hands On!	02/2025 - Present
Udemy	
Microsoft Certified Data Analyst Associate - PowerBi	02/2022 - Present
Microsoft	
Machine Learning A-ZL Hands-on Python in Data Science	09/2021 - Present
Udemy	
SQL (Advanced)	09/2020 - Present
HackerRank	

AWARDS AND CERTIFICATE

Tableau Data visualization contest winner	03/2019
IT Zone	
Green Nation Challenge Tech Startup Winner	06/2016
World Bank	
ABU ROBOCON Robot National Champion	04/2013
ABU Robocon Mongolia	

REFERENCE

Simon Ratcliffe
Head of Experimentation and Technology, Maptek
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Ray Ballantyne
Principal Consultant, Rak Development
ray@rakdev.com