

Tim Tsenguun

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

Data Analytics Engineer

SQL Expert (HackerRank) – Data Analytics Engineer with over 200+ dashboards built in Tableau and PowerBI and experience in data cleaning, exploratory data analysis, visualization, extraction, processing, and modeling. Over the past two years, I have focused on predictive analytics in an academic environment.

SKILLS

Programming Languages: Python, SQL, HTML, Javascript

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

Data Visualization: Tableau, Power BI, QuickSight

Databases: PostgreSQL, MySQL, Microsoft SQL Servers, SQLite

AWS Tools: Glue, S3, Athena, Lambda, Redshift, RDS

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

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.
- Designed and implemented **data pipelines** for the Mine-to-Mill data warehouse, utilizing **Microsoft SQL Server** for data storage and 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.

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

UNSW

- 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

UNSW

- Developed LSTM and Bidirectional LSTM models to classify song genres (pop, rock, hip-hop) based solely on lyrics

- Achieved 68% accuracy with LSTM model, outperforming baselines on minority genres

Mine To Mill Integration

01/2019 - 10/2020

Rio Tinto

- Extracted data from multiple mining systems and designed a centralized database
- Integrated 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
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Udemy

Microsoft Certified Data Analyst Associate - PowerBi	02/2022
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Microsoft

Machine Learning A-ZL Hands-on Python in Data Science	09/2021
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Udemy

SQL (Advanced)	09/2020
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HackerRank

AWARDS AND CERTIFICATE

Tableau Data visualization contest winner	03/2019
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IT Zone

Green Nation Challenge Tech Startup Winner	06/2016
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World Bank

ABU ROBOCON Robot National Champion	04/2013
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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