

# Aldiyar Salkenov

+7 778 892 88 08 | salkenov1@gmail.com | <https://github.com/salkenov1>

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5+ years of experience in data analytics and data management. Hands-on experience in designing and implementing dashboards and data pipelines as part of business analytics. Experience in commercial, humanitarian and scientific fields. Beginner in data engineering.

## Work history

### Assistant Information and Data Management Officer

UNHCR, April 2023 – December 2024

*Almaty, Kazakhstan*

- Implemented ETL processes to integrate data from various agency sources, which enabled automation of key performance indicator reporting and reduced data preparation time by 46%. Built interactive dashboards in Power BI.
- Created a monitoring system based on SQL and Python that tracks transactions in real time and automatically detects anomalies, reducing the need for manual checks.
- Developed recommendations for data warehouse architecture and metadata standardization as part of a long-term strategy, improving scalability and data quality.
- Conducted ad-hoc analysis of humanitarian aid trends and built a forecasting model (prophet) for resource planning

### Data analyst (Project)

Tansar Capital, March 2024 – August 2024

*Almaty, Kazakhstan*

- Developed and maintained interactive dashboards using Power BI to monitor Value-at-Risk (VaR), sector exposures, and drawdown metrics, helping portfolio managers mitigate risk during volatile market periods
- Streamlined weekly and monthly risk reporting processes by Python scripts that aggregated exposure data, leading to a 50% reduction in report preparation time and improved accuracy

### Senior Lecturer (main position) and data analyst (project)

Astana IT University, December 2020 – August 2023

*Astana, Kazakhstan*

- Participated in 3 research projects as a data analyst and a data engineer.
  - Ingested real-time air quality data from over 5 IoT devices using Apache Kafka, increasing data reliability and availability
  - Integrated hourly weather data from Open-Meteo API with automated workflows built in Apache Airflow, reducing manual data handling time.
  - Processed and merged large datasets using, stored in PostgreSQL, and built Power BI dashboards to visualize pollutant–weather correlations and areas.
- Designed syllabuses for courses such as “Cloud computing”, “Intro to data analysis”, “Intro to DBMS” and delivered them to students

### IT Assistant

UN ESCAP APCICT, September 2019 – November 2020

*Incheon, Republic of Korea*

- Improved the accuracy of incoming data on the e-learning platform by identifying and resolving key issues in the data collection and processing system.

- Consolidated disparate versions of the database while preserving records and ensuring high data integrity, which enabled accurate analytical processing.
- Supported sustainability reporting, participated in strategy development, and engaged with key stakeholders

## Education

### **Master of Engineering, Information Technology**

Gyeongsang National University, 2017 – 2020

*Jinju, Republic of Korea*

### **Bachelor of Science in Engineering, Information Technology**

Gyeongsang National University, 2015 - 2017

*Jinju, Republic of Korea*

### **Bachelor of Technology and Engineering, Control Systems**

Shakarim University, 2013 - 2017

*Semey, Kazakhstan*

## Skills

- Data engineering (Apache Hadoop, Kafka, Spark, Hive, Airflow)
- Data modeling
- dbt
- SQL (PostgreSQL, ClickHouse)
- Data analysis with Python (pandas, NumPy, SciPy)
- BI tools (PowerBI, Superset)
- A/B testing

## Certificates

- “Practical Big Data” course, 2023, <https://bigdatateam.org/certificates?cid=13DMlMvIMfvE9Z41h0VvVuERPd0AzY1jC>
- “Effective Python” course, 2023, <https://bigdatateam.org/certificates?cid=1tX2M-nmQVr8QL3FzApAi-uyNwju0WgHP>