

Aldiyar Salkenov

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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 financial, humanitarian and education/scientific fields. Practical experience in data engineering. AWS Certified Cloud Practitioner.

Skills

- Orchestration with **Airflow**
- ETL/ELT with **dbt**
- CI/CD
- **SQL** (PostgreSQL, Clickhouse)
- Data analysis with **Python** (pandas, NumPy, SciPy)
- BI tools (**PowerBI**)
- **AWS** (EC2, Lambda, Redshift, Glue, RDS, S3, Aurora, Kinesis)
- Data governance and quality

Work history

Senior Lecturer

Astana IT University, September 2024 – Present
Astana, Kazakhstan

- Deliver lectures in ‘Cloud Computing’, Database Management Systems and Python programming.

Assistant Information and Data Management Officer

UNHCR, April 2023 – December 2024
Almaty, Kazakhstan

- Defined analytics requirements and KPIs from the ground up by interviewing operations, finance, and donor teams. Documented key metrics such as coverage and payout lead time, and established reporting SLAs and governance standards
- Designed and implemented a full data architecture using PostgreSQL as the central database with secure access controls, schema conventions, and scalable structures
- Developed automated Python ETL pipelines orchestrated with Airflow to ingest partner reports (CSV, APIs), internal operational data, and external humanitarian datasets, ensuring reliability, freshness, and auditability
- Built robust data-cleaning and validation processes (null checks, schema enforcement, completeness tests) to maintain high data quality and traceability across multiple partners and reporting cycles
- Created easy-to-use Power BI dashboards with drill-down to country, region, and partner level, reducing donor and operational reporting time from days to hours, enabling faster, evidence-based decision-making

Data analyst (Project)

Tansar Capital, March 2024 – August 2024
Almaty, Kazakhstan

- Built and automated end-to-end risk data pipelines on Python, Airflow, and ClickHouse to ingest internal investment logs, trading operations, market quotes, macro-economic indicators (API), and credit ratings, ensuring high data quality and reliability

- Designed a multi-layer DWH architecture with dimensional models and One Big Tables leveraging dbt for modular transformations, testing, and documentation of key risk metrics such as VaR, Expected Shortfall, stress tests, counterparty exposure, and PnL decomposition
- Delivered interactive Power BI dashboards with drill-down from portfolio to instrument level, cutting risk-report preparation from hours to minutes and enabling real-time risk monitoring and strategic investment decisions

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.
 - 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

Certificates

- AWS Certified Cloud Practitioner, 2025, <https://aws.amazon.com/verification>, validation number: ef98e2941d4546eda045d964edf094d1
- “Practical Big Data” course, 2023, <https://bigdatateam.org/certificates?cid=13DMlMvIMfvE9Z41h0VvVuERPd0AzY1jC>
- “Effective Python” course, 2023, <https://bigdatateam.org/certificates?cid=1tX2M-nmQVr8QL3FzApAi-uyNwju0WgHP>