

# Aldiyar Salkenov

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## Summary

A data professional with 5+ years of experience in data analysis and information management. Skilled in designing and optimizing data pipelines, managing and analyzing large datasets, and utilizing big data technologies.

## Work experience

### Assistant Information Management Officer

UNHCR, April 2023 – October 2024

*Almaty, Kazakhstan*

- Developed and optimized data pipelines for reporting across 20+ indicators within a regional framework, enhancing interoperability across 9 UN agencies and achieving an 80% increase in data visibility
- Implemented secure and accurate data collection mechanisms, aligning with global standards to ensure 100% data accuracy and reduce data breach risks through access controls and secure protocols
- Performed in-depth data analysis and visualization to identify trends, improve decision-making, and drive actionable insights for sustainable development and humanitarian projects
- Established data governance policies and provided architecture recommendations for the multi-year strategy (2025–2029), strengthening data quality, compliance, and scalability

### Senior Lecturer

Astana IT University, December 2020 – August 2023

*Astana, Kazakhstan*

- Designed syllabuses for courses such as “Cloud computing”, “Intro to data analysis”, “Intro to DBMS” and delivered them to students
- Participated in 3 research projects with 10+ million tenge budget as a data analyst and a data engineer
- Published 3 papers in top-reputed international journals and conferences

### IT Assistant

UN ESCAP APCICT, February 2020 – November 2020

*Incheon, Republic of Korea*

- Managed to increase incoming data accuracy by 40% based on the functional requirements of the data analysis after identifying and accurately addressing the issues of the current e-learning platform
- Successfully merged various versions of the database saving records with a 90% accuracy rate, efforts gave statistically correct data processing
- Supported sustainability reporting and communication, including strategy development and stakeholder engagement process

### **ICT Intern**

UN ESCAP APCICT, September 2019 – January 2020

*Incheon, Republic of Korea*

- Conducted qualitative and quantitative research related to technology and innovation policies
- Organized, segregated and comprehensively reported the e-learning platform analysis of the student's performance
- Developed e-learning content, design and methods using subject matter experts (SMEs) to create 3 e-learning modules in accordance with program objectives

### **Research Assistant**

Gyeongsang National University, September 2018 – August 2019

*Jinju, Republic of Korea*

- Conducted research on system monitoring and evaluation in large-scale distributed systems
- Evaluated the model using a comparative analysis with quantitative and qualitative data
- Employed a linear regression with multiple features on the algorithm. The results were promising and reflected in the paper
- Successfully published the research in a top-reputed international journal (FGCS, impact factor 7.1)

## **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, April 2015 - 2017

*Jinju, Republic of Korea*

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

Shakarim State University, April 2013 - 2017

*Semey, Kazakhstan*

## **Skills**

- Big data tools (Apache Hadoop, Spark, Hive, Airflow)
- Database management (PostgreSQL, DynamoDB)
- Data modeling and architecture
- Data analysis (pandas, NumPy, SciPy)
- Data Visualization (PowerBI, matplotlib, seaborn)
- Cloud computing (AWS)
- Problem-solving
- Communication

## **Certificates**

- "Practical Big Data" course, 2023, <https://bigdatateam.org/certificates?cid=13DMIMvIMfvE9Z41h0VvVuERPd0AzY1jC>
- "Effective Python" course, 2023, <https://bigdatateam.org/certificates?cid=1tX2M-nmQVr8QL3FzApAi-uyNwju0WgHP>