

# Arman Malkhasyan



+374 99 36 05 72



[armanmalkhasyan1994@gmail.com](mailto:armanmalkhasyan1994@gmail.com)



<https://www.linkedin.com/in/arman-malkhasyan-10354015b/>

The winner of the International Student Olympiads of Mathematics (2020 and 2022)

## Professional Summary

---

- 5+ years of professional experience in the Information Technology industry;
- Rich experience in software architecture design, knowledge of a wide range of programming languages: Python, Java, C++;
- Data Engineer both in the cloud and on-premises environments, having an experience in ETL/ELT and data pipeline development, OLTP and OLAP design, and database modeling. All normal forms; Experience in SQL databases and storage systems. Experience in designing, building and implementing Data Warehouse solutions.
- Proficient in data scraping, beginner in DevOps engineering, ML engineering, visualization, and reporting;
- Experience in finding appropriate solutions to issues via software architecture;
- Experience in determining and analyzing business requirements and communicating with clients;
- Working efficiently, both independent and with a geo-distributed team;
- Experience in resolving customer escalations, incident and problem management, troubleshooting, and performance optimization;
- Experience working alone and as part of a team – willing and able to support the team on a diverse set of development tasks;
- Experience of Agile working methodologies and their application in a data environment.
- Ex Accountant and Financier with 5 years of experience in the public and private sectors;
- Ex Journalist (Economic) and news writer with 2 years of experience in the leading TV companies of Armenia;

# Work Experience

---

**SADA** (<https://sada.com/>)

Data and Big Data Engineer

2022 – present

**Emergn** (<https://www.emergn.com/> )

Data Engineer / Python Developer

2020 – 2022

**NRGaming Company** (<https://www.nrgaming.com/en> )

Data Engineer

2020 – 2021

**Ministry of Defense of the Republic of Armenia**

The Head of Financial Department, Statistician

2019 – 2021

**Student and Commercial Projects**

Data Analyst, Data Engineer

2019 – Present

**Ministry of Defense of the Republic of Armenia**

Senior Accountant, Financier, Statistician

2016 – 2019

**Armenia-TV Company**

Journalist, Economic Journalist

2015 – 2016

**Armnews-TV Company**

Journalist, Economic Journalist

2014 – 2015

**Private Company**

Mathematics Tutor

2012 – Present

# Professional Skills

---

**Programming and Markup Languages:** Python, Java, C++, SQL, HTML

**Technologies:** Apache Airflow, PySpark, NumPy, Pandas, Matplotlib, Stata, Excel (Power Query, Power Pivot), Fivetran

**AWS:** RDS, Lambda, Redshift, Glue, S3, CloudWatch, Cloud9, EventBridge

**GCP:** GCS, Cloud SQL, Cloud Spanner, Cloud Firestore, Pub/Sub, Dataflow, Dataproc, Bigtable, BigQuery

**Databases:** MS SQL, PostgreSQL, MySQL

**Methodologies:** CI/CD, AGILE / SCRUM

**Operating Systems:** Windows, Linux, macOS

# Recently completed projects

---

## Migration from AWS to GCP

*Client:* Canada-based company  
*Description:* The project aimed to migrate an application from AWS to GCP. Migration included Apache Spark jobs. The workflow in AWS was built in Kubernetes environment. The solution in GCP was made using Cloud Storage, Cloud SQL, Dataproc, Composer. Apache Spark and Python versions were updated.  
*Languages:* Python, SQL  
*Tools:* Apache Spark, Apache Airflow, AWS, GCP  
*Position:* Data Engineer

## Turnover by Products

*Client:* Tanzania-based company  
*Description:* The project aimed to build and maintain a data warehouse, create appropriate data pipelines and run the ETL process. The data warehouse was held in the form of a star schema. Batch processing collected data points at specific periods. The overall process was implemented using MySQL and Python and scheduled via Airflow.  
*Languages:* Python, SQL  
*Tools:* Airflow  
*Position:* Data Engineer

## Real Estate Solution

*Client:* Canada-based real estate agency  
*Description:* The project's goal was to create complete data engineering architecture, OLTP database, OLAP database, data pipelines, scheduling, and workflow automation. Both stream and batch processing were used here.  
*Languages:* Python, SQL  
*Tools:* Cloud computing, NumPy, Pandas, Web scraping, PostgreSQL, AWS Lambda, AWS RDS, AWS Redshift, AWS S3, AWS CloudWatch, AWS Cloud9, AWS EventBridge  
*Position:* Data Engineer, Data Architect

## Wealth Size on Happiness Rate

*Client:* Armenia-based company  
*Description:* The project aimed to find the factors that significantly impact the Happiness Rate of Armenians and Georgians. The primary data source was the Caucasus Barometer. The data was gathered, cleaned, and preprocessed with SQL and Python. Then the feature extraction was done. After that, supervised learning algorithms were fitted. One of the interesting conclusions is that education level had a more significant impact on the happiness rates of Georgians than on Armenians.  
*Languages:* Python, SQL  
*Position:* Data Analyst, Machine Learning Engineer

## Certifications

---

Google Cloud Certified Professional Data Engineer

Google Cloud Certified Professional Cloud Architect

## Education

---

Master's Degree, Science of Economics, Data Analytics, American University of Armenia

Bachelor's Degree, Finance and Economics, Armenian State University of Economics

## Languages

---

Armenian - native

English – fluent

Russian – fluent

Spanish - beginner

## Interests

---

Publisher in <https://medium.com/>

Reading

Playing piano

Travelling