

ARSEN KENESBAYEV

Data Engineer | SQL & Python

- +7 707 446 6793
- Kazakhstan, Almaty
- arsen801777@gmail.com
- Telegram



github portfolio



linkedin

Summary

Data Engineer with strong proficiency in SQL and Python, passionate about transforming raw data into actionable insights. Experienced in building real-world tools, from banking databases and recommendation engines to AI-powered apps and algorithm visualizations. Continuously learning, automating, and exploring the intersection of data and intelligent systems.

Skills

- Core Data Engineering:** SQL, Python, PostgreSQL, Oracle, ETL/ELT
- Data Platforms & Workflows:** n8n, PGVector, RAG systems, Pandas, NumPy
- Infrastructure & Automation:** Docker, Linux, Zabbix, Grafana, GitHub
- Supporting Tools:** Power BI, Selenium, HTML/CSS/JavaScript

Projects

- Movie recommendation system website**

Tech Stack: Flask, TMDb API, Scikit-learn, TF-IDF, Cosine Similarity, Matplotlib, Waitress, Ngrok

Built a movie recommender with content-based filtering (TF-IDF + cosine similarity), user auth, dark/light mode, and an Akinator-style assistant. Processed 5,000+ TMDb movies. Included adaptive filtering, deployed via Waitress + Ngrok, and integrated a team portfolio.

GitHub: [\(github link\)](#)

11/2024 - 12/2024
- Online Bank database using Apex Oracle SQL**

Tech Stack: Oracle APEX, SQL, Java, Miro, Canva

Designed a Kaspi-style database with normalized schemas for customers, cards, loans, etc. Wrote 30+ optimized queries (joins, subqueries, window funcs), added triggers and indexes for speed. Generated mock data via Mocaro + Java; built and presented using Miro & Canva.

10/2023 - 12/2023
- DFS Traversal animation website**

Tech Stack: HTML, CSS, JavaScript, Bootstrap, GitHub Pages

Created an interactive DFS visualizer with animations, SFX, and embedded YouTube explainer. Responsive design and fully commented source code.

Live demo: [\(github pages link\)](#).

04/2023 - 05/2023

Education

- Suleyman Demirel University**

Bachelor's degree, Computer Science

Kazakhstan, Kaskelen

09/2022 - 05/2026
- Certifications:**

 - Google Data Analytics(link)
 - PostgreSQL(Michigan University)
 - HCIA Datacom - Huawei
 - Selenium on Python - Stepik
 - Python Backend - Skylearn(TechOrda)
- Languages:**

 - Kazakh(Native)
 - Russian(Fluent)
 - English(Upper-Intermediate)

Experience

- KazNetCom**

DevOps Engineer (Internship)

Almaty, Kazakhstan

08/2025 - 09/2025

 - Managed a Dockerized Frigate NVR system on Linux, implementing NVIDIA CUDA hardware acceleration to optimize server performance by minimizing CPU load.
 - Built a Zabbix & Grafana monitoring stack with custom dashboards for real-time tracking of network infrastructure health and critical service availability.
 - Automated network outage notifications by integrating Zabbix with Telegram for instant alerts on base station status changes.
 - Engineered a custom GIS platform (OpenStreetMap/Yandex Maps) with an integrated draw.io editor for interactive visualization and management of network diagrams.
- Financial Regulatory Agency of Kazakhstan**

Automation & Data Engineer (Internship)

Almaty, Kazakhstan

06/2025 - 08/2025

 - Designed and implemented two end-to-end systems on the n8n platform: a data pipeline for automated report generation (integrating GLPI/Bitrix24) and a RAG system for an AI assistant.
 - Developed a full RAG cycle, from data ingestion (web scraping) and text vectorization (Embeddings) to storage and retrieval from a PostgreSQL/PGVector database.
 - Executed a complex integration with GLPI and Bitrix24, which involved reverse-engineering APIs, data enrichment, and extracting structured information from .docx files using an LLM (Ollama).
 - Engineered fault-tolerant asynchronous workflows by implementing a distributed locking mechanism in PostgreSQL to resolve race conditions.
 - Architected and implemented a PULL-based data retrieval model to bypass network security restrictions that blocked standard PUSH-based webhooks.