

ARSEN KENESBAYEV

Data Engineer | SQL & Python

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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

11/2024 - 12/2024

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

Online Bank database using Apex Oracle SQL

10/2023 - 12/2023

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.

DFS Traversal animation website

04/2023 - 05/2023

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

Education

Suleyman Demirel University

Kazakhstan, Kaskelen
09/2022 - 05/2026

Bachelor's degree, Computer Science

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

Almaty, Kazakhstan
08/2025 - 09/2025

DevOps Engineer (Internship)

- 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

Almaty, Kazakhstan
06/2025 - 08/2025

Automation & Data Engineer (Internship)

- 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.