

ARSEN KENESBAYEV

Data Analyst | SQL & Python

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Summary

Data Analyst 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

Programming & Scripting: Python, Java, JavaScript, SQL (Oracle, PostgreSQL), HTML5, CSS, Bootstrap

Data Analysis & Machine Learning: Pandas, NumPy, Scikit-learn, Matplotlib, Excel, Power BI, Selenium (Web Scraping)

Tools & Collaboration: GitHub, Notion, Miro, Canva, PowerPoint

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, 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

Bachelor's degree, Computer Science

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

Almaty, Kazakhstan

DevOps Engineer (Internship)

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

Almaty, Kazakhstan

Automation & Data Engineer (Internship)

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.

Night Ethernet Support

06/2024 - 08/2024

- Provided remote and on-site tech support for individuals and businesses, resolving internet and performance issues.
- Used Winbox and Bitrix for diagnostics, fixing network outages, equipment failures, and config errors.
- Coordinated with network admins on complex cases to maintain service reliability.
- Managed technician dispatch, prioritizing tasks by urgency.
- Ensured high customer satisfaction via phone and WhatsApp support.

DARYN LLC

Almaty, Kazakhstan

Inside Sales Representative

07/2022 - 09/2022

- Made 100+ cold calls per day to parents and students, promoting educational courses.
- Used persuasion and active listening skills to engage potential customers and address objections.
- Gained hands-on experience in high-volume sales, refining communication and negotiation techniques.