

# ALEX SHVACHKO

## DATA ENGINEER, SOFTWARE DEVELOPER

### SUMMARY

Final-year Data Engineering student and Scientific/Algorithm Developer shipping ML for longitudinal medical analytics at scale (1B+ rows).  
Proficient in Python, SQL, C# with solid data modeling and MLOps (CI/CD for ML, Docker/K8s, monitoring, drift/evals).  
Practical GenAI experience (Stable Diffusion/Flux), including training/evaluation, RAG/vector stores, and prompt design focused on cost/perf.  
Alongside my professional work, I also provide personal services in business automation and digital marketing, and have experience as a Python tutor.  
I'm now looking for job opportunities where I can take on interesting, challenging projects in Data and ML, and deliver real impact.

### MAIN SKILLS

- Python (5+ yrs), SQL, C#/.NET
- .NET Core, ASP.NET, REST - development experience
- Cloud Platforms (AWS, GCP, Azure)
- Dashboards: Power BI, Dash, Streamlit, Tableau
- NLP & LLMs: embeddings, sentiment analysis, RAG.
- Statistical Inference
- Big Data Tools: Spark, Hadoop, Hive, HDFS
- Application Security
- n8n, Webhooks, API's
- Have a strong experience with No-SQL databases(especially Mongo, MinIO, Redis, Cassandra)
- Commercial BI development with SSIS(advanced)
- C#/.NET (1 yr, production).
- Proficient with almost all popular SQL DB's(Postgre, SQL-Server)
- Experienced in ETL
- Famfiliar with Java, C/C++(backend stack)
- XGBoost, LightGBM
- Advanced in ML Training\Evaluation
- LoRa training(advanced)
- Docker(advanced), Web API, Kubernetes
- Data Warehouse/Lake, Snowflake
- DevOps/CI: Git, GitHub Actions
- Flux, Stable Diffusion, ComfyUI(self-taught)
- pandas, TensorFlow, PyTorch, numpy, scikit-learn, optuna
- Experienced with Linux(advanced), Bash(advanced), Slurm

### EXPERIENCE

#### ALGORITHM DEVELOPER

Millimedical Solutions(startup), 2024-present

- Led development of a service powering 20+ researchers with longitudinal medical analysis and temporal data mining at scale (>1B rows). Improved research efficiency through optimized C# and SQL pipelines, leveraging Python, DevOps tools, and Linux/SLURM.

#### AI COURSE TUTOR

Cyber Education Center, 2023-2024

- Completed a one-year contract as an AI course tutor for 10th grade excellence program students. Developed strong skills in team leadership, collaboration, communication, and public speaking while teaching core AI concepts.

### EDUCATION

#### BEN-GURION UNIVERSITY OF NEGEV

B.Sc. in Data Engineering, 2022 - present

- Final-year student with strong interest and hands-on experience in data engineering. Accepted into the program without a psychometric score.
- **Current GPA: 80 (2025)**

#### AMIT HIGH SCHOOL BEER-SHEVA

High School Diploma, 2016-2019

- Graduated with honors, ranked among top 5 students.
- Participated in SKILLZ competition (2018–2019).
- **GPA: 116**

### ARMY SERVICE

- Completed mandatory service in a non-combat support role.

### LANGUAGES

- Hebrew (fluent).
- Russian (native).
- English (fluent).
- Ukranian (native).

### CONTACT

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### LINKS

**Personal Website**

**LinkedIn**

**GitHub**