

# ALEX SHVACHKO

## DATA ENGINEER, SOFTWARE DEVELOPER

### SUMMARY

I'm final-year Data Engineering student and Software Engineer (Data/ML focus) with 5+ years of Python experience, and 1+ year of C#/.NET and SQL development experience. Skilled in building scalable automations and workflows using cloud platforms (AWS, GCP), n8n, Make, APIs, and data pipelines. Developed algorithm and ml driven solutions for longitudinal medical analytics on 1B+ row datasets, significantly improving research efficiency. Experienced with generative AI (RAG pipelines, vector databases, embeddings, and AI agents including LLMs).

I like the challenge of designing scalable data systems that connect backend infrastructure with AI-powered services. My personal hobbies and part of a business is workflows in ComfyUI(StableDiffusion) and n8n(LLM's). Currently I'm looking for opportunities to drive innovation in data engineering and AI while delivering impactful, production-ready solutions.

### MAIN SKILLS

- Python computing(5+ yrs)
- C#/.NET .NET Core, ASP.NET, REST (1+ yrs development experience)
- Cloud Platforms (AWS, GCP)
- Dashboards: Power BI, Streamlit
- data pipelines, prompt engineering, webhooks, API's
- NLP & LLMs: embeddings, sentiment analysis, RAG
- Medical analytics, Big Data tools: Spark, Hadoop AWS
- serverless integration, n8n, Make, Zapier
- AnythingLLM, Ollama
- SQL(1+ year of dev experience)
- Strong experience with NoSQL databases(especially Mongo, MinIO, Redis, Cassandra)
- AI agents/LLM, Data flow implementation
- Proficient with almost all popular SQL DB's(Postgre, SQL-Server, MySQL), SSIS(advanced)
- Expierenced in ETL\BI
- Fammiliar with Java, C/C++ (backend stack)
- XGBoost, LightGBM, SVM, MoE
- Advanced in ML Training\Evaluation
- LoRa training(advanced)
- MCP, Agent Tools, OpenAI Assistants
- Docker(advanced), Web API, Kubernetes
- Personal experience at user acquisition and attribution
- DevOps/CI: Git, GitHub Actions
- Flux, Stable Diffusion, ComfyUI(self-taught)
- pandas, TensorFlow, PyTorch, numpy, scikit-learn, optuna
- Linux(advanced), Bash(advanced), Slurm
- R, Tableau, seaborn
- IR, vector search
- microservices, GenAI

### EXPERIENCE

#### SOFTWARE ENGINEER (DATA/ML FOCUS)

Millimedical Solutions(startup), 2024-present

- Designed and optimized a large-scale data pipeline (C#, SQL, Python) for longitudinal medical analytics, reducing query time by 60% and enabling 20+ researchers to process 1B+ rows efficiently.

#### DATA SCIENCE INSTRUCTOR

Cyber Education Center, 2023-2024

- Tutored 40+ students in Python and core AI concepts, reducing dropout by 20%.
- Became collaborative team player with the ability to work cross-functionally with different teams.
- Developed advanced AI driven pipeline for automating student homework reports.

### 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. GPA: 116
- Twice went to finals of SKILLZ hackaton(2018–2019).

### 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**