ALEX SHVACHKO

DATA ENGINEER, SOFTWARE DEVELOPER

SUMMARY

I'm final-year student of Data Engineering in BGU. I have a solid experience working with Pyhton(5+ years) and 1+ year of C#/.NET and SQL development experience as Software Engineer (Data/ML focus) at Millimedical Solutions. I have rich personal experience in building scalable automations and workflows using cloud platforms (AWS, GCP), n8n, Make, APIs, and data pipelines.

I have practival(vibe) knowledge of web development (HTML, CSS, JavaScript), and experienced with Python backed development and modern development tools like Cursor, Claude Code, Base44, V0, Codex, Windsurf etc.

I'm interested and experienced in modern AI Technologies: from training to fine tuning and evaluation of ML models. I experienced in building complex workflows in Make and n8n with AI Agents, different triggers, automations and integrations. This experience I gained from academic, personal and professional projects that you can see at my personal portfolio website at the end of this document.

My personal hobbie is creating advanced wokflows in ComfyUI(StableDiffusion) and n8n(LLM's). Currently I'm looking to grow within a challenging and dynamic innovation environment as software engeneer.

MAIN SKILLS

- Python computing(5+ yrs), FastAPI
- C#/.NET .NET Core, ASP.NET, REST (1+ yrs development experience)
- Cloud Platforms (AWS, GCP)
- Dashboards: Power BI, Streamlit
- LangChain, LangGraph,
- NLP & LLMs: embeddings, sentiment analysis, RAG, IR, vector store, Pinecone
- Big Data tools: Spark, Hadoop
- n8n, Make, AgentKit, Zapier
- SQL(1+ year of dev experience)
- Algorithm development experience

- Strong experience with NoSQL databases(especially Mongo, MinIO, Redis, Cassandra)
- AI agents/LLM, Tools, Evaluation
- Proficent with all popular SQL DB's(Postgre, SQL-Server, MySQL)
- Expierenced in ETL\BI with SSIS
- Fammiliar with Java, C/C++ (backend stack)
- XGBoost, LightGBM, SVM, MoE
- Advanced in ML Training\Evaluation
- LoRa training(advanced)
- Fronted vibe coder: HTML, CSS, JavaScript
- Statistical inference, R

- Docker(advanced), Web API, Kubernetes
- Buisness analytics personal experience
- DevOps/CI: Git, GitHub Actions
- Flux, Stable Diffusion, ComfyUI(self-taught)
- pandas, TensorFlow, PyTorch, numpy, scikit-learn, optuna, seaborn
- Linux(advanced), Bash(advanced), Slurm
- Cybersecurity enthusiast
- microservices, GenAI, AI Art
- Databricks, DataProc

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.
- Gained strong motivation, creativity, and problem-solving skills.

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 excellent communication abilities.
- 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

- Volunteered to IDF and completed a full mandatory service from 2019 to 2022 as combat driver at West Bank.

LANGUAGES

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

CONTACT

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LINKS

Personal Website
LinkedIn
GitHub