

Alex Shvachko

DATA ENGINEER

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Summary

Final-year Data Engineering student with **5+ years of Python experience and 1.5 years of production-level development using .NET Core, C#, SQL Server, and SSIS**. Built scalable, data-driven pipelines processing over 1 billion rows and applied modern DevOps practices (Docker, GitHub Actions, GCP). **Experienced in automation** workflows with n8n and Make, cloud integration, and ML model evaluation, including LLMs. Proficient in HTML, CSS, JavaScript for quick dashboards and internal tools. Seeking a **Junior Data Engineer / AI Engineer** position in an innovation-driven environment building intelligent, production-ready data systems.

Skills

Core Technical Stack

Python (5+ yrs) | SQL Server & MySQL (1.5+ yrs production) | PostgreSQL (advanced) | MongoDB (adv) | SSIS (3+ yrs) | .NET Core & C# (1.5+ yrs production) | Web API (1.5+ yrs production) | Docker (production) | Git / GitHub Actions (CI/CD) | Linux | Bash | GCP (personal projects) | AWS (familiar)

Data & ML Tools

Databricks | Spark | Hadoop | Pandas | NumPy | scikit-learn | TensorFlow | PyTorch | XGBoost | LightGBM | Optuna | Power BI | Streamlit | Tableau | Dataproc | MinIO | NoSQL (Redis, Cassandra, Neo4j) | MLOps | Data Lake

Automation & Other Skills

n8n | Make | Zapier | LLM APIs (OpenAI, Anthropic, Gemini, Ollama) | Prompt Engineering | JavaScript | HTML/CSS | Java, C, C++, and R (academic) | Kubernetes

Experience

Software Engineer – Data/ML focus

Millimedical Solutions (startup), 2024-present

- Designed and optimized large-scale data pipelines (**C#, SQL, Python**) for longitudinal medical analytics, reducing query time by **60%** across **1B+ rows**.
- Implemented **ETL workflows (SSIS, custom C# modules)** and automated data ingestion using **DevOps tools, Docker, GitHub Actions, and Linux/SLURM**.

Data Science Instructor

Cyber Education Center, 2023-2024

- Tutored **40+ students** in **Python programming and core AI/ML concepts**, increasing retention and reducing dropout by **20%**.
- Developed an AI-driven automation pipeline that generated individualized homework reports and progress summaries, reducing manual review time by over **70%** and improving reporting accuracy.

Education

Ben-Gurion University of the Negev

B.Sc. in Data Engineering, 2022–present

- Final-year student with hands-on experience in data engineering and applied ML.
- Admitted without psychometric score based on exceptional academic performance.

Languages

Russian(native) | Ukrainian(native) | Hebrew (fluent) | English (fluent)

Army Service

Volunteered for the IDF and completed full mandatory service (2019-2022) as a combat driver in the West Bank.