

Valeriy Sofin

Machine Learning Engineer

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PROJECTS

- Some ML Models** | *Python, PyTorch, TensorFlow, Tinygrad, Scikit-learn and more* Ongoing
- Developed multiple Machine Learning (ML) and Deep Learning (DL) models, including Retrieval-Augmented Generation models.
 - Completed assignments and projects focusing on natural language processing (NLP) and neural networks, leveraging frameworks like PyTorch, TensorFlow, Tinygrad, Scikit-learn...
- Tetris** | *C++, SDL2* Completed
- Created a Tetris game from scratch using C++ and the SDL2 library, focusing on game mechanics, performance, and user interface.
- Text Editor** | *C#, Windows Forms* Completed
- Developed a fully functional Text Editor using C# and the Windows Forms framework, featuring file manipulation, text formatting, and an intuitive UI/UX.
- ToDoList** | *Swift, SwiftUI, MVVM* Completed
- Built a To-Do List application using Swift and SwiftUI with the MVVM architecture. Implemented features such as task management, persistence
- AddressBook** | *Swift, UIKit, MVC* Completed
- Developed an Address Book application without Storyboard using Swift, UIKit, and the MVC architecture, enabling efficient contact storage
- Learning Management System** | *PostgreSQL, CMake* Completed
- Designed and managed a PostgreSQL database for an LMS application, optimizing SQL queries for data retrieval and improving performance.
 - Refactored the project build system from qmake to CMake for better scalability and efficiency.

EDUCATION

- BGTU “VOENMEH”** Saint-Petersburg, Russia
Bachelor of Software Engineering Sep. 2022 – Present
- Carnegie Mellon University** Online
15-445/645 Database Systems Completed
- Hebrew University of Jerusalem** Online
Nand2Tetris Completed
- Andrej Karpathy** Online
Neural Networks: From Zero to Hero Completed
- Fast.ai** Online
Practical Deep Learning Completed

TECHNICAL SKILLS

Languages: Russian(Native), English(C1)
Technical Skills: Python, Data Structures, Algorithms, Git, Swift, SQL, NLP, C++, DL, ML, AI, NumPy, Matplotlib, Scikit-Learn, PyTorch, LLM, LangChain, RAG