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, and 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, and custom user notifications.

AddressBook | *Swift, UIKit, MVC* — Completed

- Developed an Address Book application without Storyboard using Swift, UIKit, and the MVC architecture, enabling efficient contact storage and search functionalities.

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