Valeriy Sofin

Machine Learning Engineer

valerasofin04@gmail.com | @fantasyun1corn | Saint-Petersburg, Russia | github.com/sofinvalery

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: C#, C++, Swift, Python, JavaScript, SQL, HTML/CSS
Frameworks & Libraries: PyTorch, TensorFlow, Tinygrad, Scikit-learn, SwiftUI, UIKit, Windows Forms, SDL2
Developer Tools: Git, Docker, CMake, Visual Studio, VS Code, IntelliJ, Eclipse
Databases: PostgreSQL
Others: MVVM Architecture, MVC Architecture