

Illia Manzhela

FULL-TIME STUDENT

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Education

Warsaw University of Technology

3 YEAR

- Faculty of Mathematics and Information Science

Warsaw, Poland

October 2018 - still studying

Skills

Languages C/C++ 11, C# 8.0, JavaScript (ES6), SQL

English (C1), Polish (B1), Ukrainian (native), Russian (native)

Technologies/Tools

HTML5/CSS3, DOM, NodeJS, ReactJS/ReactNative, .NET 5.0, .NET Core 3.1, Entity Framework (Basics), ASP.NET Core (Basics),

LINQ, MS SQL Server, POSIX IPC, Linux/POSIX, Docker, git, STL, CUDA (Basics)

Soft Skills

Eager to constantly learn, do consider the fact that someone may read my code in the future

Experience

C/C++ Programming

- C mainly used for creating multi-process/multi-thread programs for Linux environment using POSIX IPC
- C++ mainly used for implementing algorithms using STL

C# Programming

- Classes, inheritance, polymorphism, data encapsulation, reference and value types, overloaded methods
- User-defined operators and indexers, properties
- Interfaces, yield iterators, extension methods
- Generic types. Delegates, lambda expressions
- Event driven programming, asynchronous and parallel programming, exception handling
- Basics of .NET Framework
- LINQ
- WPF applications
- Used for learning Object Oriented Design

Algorithms and Data Structures

- Basic data structures
- Correctness and complexity of algorithms
- Sorting: heapsort, quicksort, counting sort, radix sort, bucket sort
- Searching: Binary Search Trees, AVL trees, red-black trees, B-trees
- Hashing: hash tables, hash function construction methods