

Michał Mrowicki



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Foregin Languages

English B2/C1

About me

I am an ambitious and energetic 3rd-year Computer Science student. I have gained practical experience through various academic projects, mainly in C++, Python, and Java, and I collaborate well in teams. I am looking for an opportunity to apply my skills and learn from experienced professionals.

Programming projects

Rubik's Cube Speedcubing Timer (C++):

A console application for speedcubing developed in C++. I created a high-precision console timer. I implemented custom Stack and Linked List structures from scratch to practice memory management and used multithreading for the inspection countdown.

Game of Life (C++/Python/Java)

A simulation project where I implemented the same "Game of Life" logic in three different languages: C++, Java, and Python. My goal was to learn the differences between them and practice Object-Oriented Programming (OOP) by designing a clean class structure for cells and organisms.

Graphs (C++)

A project focusing on graph theory algorithms implemented in C++. I wrote functions for graph traversal (DFS) and graph coloring. I avoided using the Standard Template Library (STL) to better understand how pointers and dynamic memory work.

RPN Calculator (C++)

Implemented a mathematical expression parser using the Shunting-yard algorithm to convert expressions to Reverse Polish Notation. Instead of using Standard Template Library (STL) containers, I created a custom doubly linked list to handle Stack and Queue operations manually.

Programs and systems

- Visual Studio
- PyCharm,
- Windows,
- BASH
- GIT
- Intelij IDEA
- Linux
- GitHub

Interests

- Rubik's cubes
- Guitar
- Football
- History

Languages

- C/C++
- Python
- Java
- Assebmler

Education

- October 2023 - now:
- Gdańsk University of Technology
 - major: Computer Science, 3rd year
- September 2019 - July 2023
- High School no 19 in Gdańsk
 - Mathematics-geography profile

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