

# Kyrylo Polishchuk

## JavaScript Engineer

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Prague, Czech Republic

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<https://github.com/KyPoCha>

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### Skills, Tools

C++  
C#  
C  
PostgreSQL  
Node.js  
Typescript  
React  
npm  
Git  
JavaScript  
Bootstrap

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### Work experience in projects

#### CLI Utility

Implementation of the weather utility in JavaScript, in which with the help of 1 command we get the weather forecast in a certain specified region. Thanks to this, I practiced and fixed materials on how to work with the file system, how to configure the environment, how to use modules, how to write the correct separation of application logic, how to use external APIs and utility weather configurations.

#### Dashboard API

The second dashboard api project with requests and authorization is written in Typescript using layer architecture, where controllers, services, a database and its repository, dependency injections, decorators and configuration files are implemented. Unit and e2e testing are written in practice on this project.

#### PET Projects

The goals of these projects are to use and practice the acquired skills in web development using JavaScript, such as: dynamic updating of data on pages, business logic design, event processing, refactoring and working out mistakes made while writing scripts. Such projects are:

Telegram bot  
Income calculator  
Pin Pong Game  
ToDo List  
Server

In the Server project, the back-end of the local host of the web page was implemented to deploy it.

#### Student Projects

The student projects implemented the skills of object-oriented and procedural programming in C, C++ and C#, as well as the competent use of memory and efficient code. Basically, there were

implementations of individual tasks in which the goal was to build business logic for each individual item of the task. The largest project was a semester work on the topic Matrix Calculator.

The program is written as a semester project in C++. The task of the project is to write code without using third-party user libraries. The program provides the ability to manage matrices. Algebraic operations are implemented: multiplication of matrices by a vector and by each other, addition, subtraction, transposition and, thus, exponentiation. So the program can find the order, determinant, rank of the matrix if the matrix is square, regular or rectangular. For square matrices, we can calculate inversions. Alternatively, we can combine and trim the matrix (for trimming, the program will request a vector with the specified points), and thus save it in variables of the char type, for which further use is possible until the end of the program. So the program allows you to calculate systems of equations by the Gaussian elimination method (there should be more columns than rows).

<https://github.com/KyPoCha/C-codes-from-study>

<https://github.com/KyPoCha/CPP-codes-from-study>

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## Education

CTU - Bachelor's degree in  
Software Engineering in the  
Czech Technical University in  
Prague

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## Czech Technical University in Prague / Bachelor

September 2021 – August 2024, Prague

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## Languages

English - intermediate

Czech - intermediate

Ukrainian - native

Russian - native