

# Patrik Backo

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GitHub: <https://github.com/PatrikBacko>

## EDUCATION

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**Charles university, Faculty of Mathematics and Physics** 2021 – 2024(anticipated completion)  
- Bachelor's degree candidate of **Computer Science**

**High school: Gymnázium Varšavská cesta 1** 2013-2021  
- Grammar school

## EXPERIENCE

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**Student developer at Siemens** Aug 2022 – Dec 2022  
*Part time developer*  
- Coding in C# and python,  
- Assisting with network and linux administration

**Junior Data Science Intern at MSD Czech Republic** Nov 2023  
*Junior Data Scientist*  
- Statistical data analysis, machine/deep learning, computer vision in python  
- Working with AWS and Linux high performance cluster

## PROJECTS

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**Logic - Python** project of the board game for two players, including the option to play against the real-life skilled AI. The GUI is implemented by using the tkinter library.

**Graph Theory Library** – Object Oriented .NET library for graphs and algorithms from graph theory. Uses generic types, delegates, unit tests, json serialization, fluent syntax, and other interesting concepts.

**Machine learning algorithms** - Implementation of many machine learning algorithms in python. (gradient boosted decision trees, MLP, PCA, K-means, Logistic regression ...)

## LANGUAGES

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- Slovak – native speaker
  - English – advanced
  - French – basic

## COMPETITIONS AND INTERNSHIPS

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- Unit 2023
  - Google Hash Code 2022
  - Spring school of programming – Žilinská University (building and programming the real car model driving on the solar energy)
  - MiniErasmus - Comenius University in Bratislava, Faculty of Mathematics, Physics and Computer Science

## ANOTHER ABILITIES

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- Ability to learn fast and obtain new skills quickly – (previous work experience, Siemens and MSD)
  - Ambition - (studying challenging University while working in my study field)
  - Friendly and positive attitude - (University and high-school math/computer science competitions and conventions, team sports)

## INTERESTS

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- cooking, sports (swimming, cycling, skiing, volleyball), computer games, cinematography