

Patrik Backo

(+421) 908 424 954 | patrik.backo1@gmail.com

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

EDUCATION

Charles university, Faculty of Mathematics and Physics	2024 - 2026
- Master's degree candidate of Computer Science – Computational linguistics, NLP, ML and AI	<i>(anticipated completion)</i>
Charles university, Faculty of Mathematics and Physics	2021 – 2024
- Bachelor's degree of Computer Science	

EXPERIENCE

Junior Data Science Intern at MSD Czech Republic	Nov 2023 – until now
<i>Junior Data Scientist</i>	
- Statistical data analysis, machine/deep learning, computer vision in python	
- Model deployment – AWS, Databricks	
Student developer at Siemens	Aug 2022 – Dec 2022
<i>Part time developer</i>	
- Coding in C# and python,	
- Assisting with network and Linux administration	

PROJECTS

Drum one-shot sample generator – bachelor's thesis, Deep neural network based on VAE architecture generating sounds of drums for production of electronic dance music. Python, Pytorch, communication with music producers

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 programming 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

COMPETITIONS AND INTERNSHIPS

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- Unit 2023 - Hackathon
 - 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, high-school math/computer science competitions and conventions, team sports ...)

INTERESTS

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- cooking, finance, sports (swimming, cycling, skiing, badminton), computer games, cinematography, books