



Michal Mrkos

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🐙 GitHub Profile

🌐 LinkedIn Profile

EDUCATION

- **Faculty of Electrical Engineering, CTU in Prague** since 2022
Bachelor's degree, Open Informatics with a focus on AI GPA: 1.0 (CZ)/4.0 (US)
- **Gymnázium, Polička, nábřeží Svobody 306** 2018-2022
Graduated with focus on Physics, Chemistry and Biology Overall GPA: 1.0 (CZ)/4.0 (US)

ACHIEVEMENTS

- **Young talent of Region Pardubice** three times awarded in natural science section 2018, 2019, 2022
- **1st Place** Physics Olympiad - Pardubice Region 2021
- **3rd Place** CanSat - National round - team competition 2022
- **1st Place** Chemistry Olympiad - Pardubice Region 2017
- **1st Place** "Kraje pro bezpečný internet" - national round winner 2017
- **25th Place** CTU open - team competitive programming 2023

SKILLS AND INTERESTS

Programming Languages: C, C++, Python, Javascript, Java, Haskell

Developer Tools: JetBrains suite, Visual Studio Code, Git, Neovim, Linux, Windows, basics of Docker

Frameworks: Numpy, Flask, basics of NodeJS

Additional completed courses taken at CTU: Quantum Computing and Algorithms (QUA), Differential equations and Numerical methods (DEN), Basics of Medical electronics (ZLE)

Cloud/Databases: SQL, PostgreSQL, basics of MongoDB

Languages: English - CAE C1 (197), basics of German language

Soft Skills: ESTJ type, worked as a tourist guide in museum in Policka

Areas of Interest: deep learning, motion planning, mathematical optimization

Free-time interests: piano and guitar playing, gym exercises, 15th place at **Stepanek's rowing project**

PROJECTS

- **Combination of RRT and RL for deformable object planning** 🌀 2024 - 2025
Under developments (As a bachelor Thesis).
- **Creation of puzzles for university project HAPKY** Summer 2022
Created two problems with topics in physics and algorithms and their evaluation scripts.
- **AZK - software for playing "AZ-kvíz"** 🌀 2022
Created server-client app and question creator tool
– Tools & technologies used: Javascript, PhaserJS, NodeJS, SocketIO
- **Many unpublished semestral assignments at CTU**
Different assignment from different subjects
 - Simulation of SIR model (JAVA)
 - Quiz game for MZ-APO board (C)
 - Parallelisation of space search (C++)
 - Implementation of RAFT algorithm (JAVA)