Nikola Kalábová

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Education

Bioinformatics Charles University Prague, Czech Republic

2018 - now

I am doing a bachelor level degree in bioinformatics.

Abitur Friedrich Schiller Gymnasium Pirna, Germany

2012 - 2018

Studying in a foreign country gave me the understanding of a different culture and improved my languae abilities. I also learnt responsibility and self-sufficiency.

Work Experiences

Research internship

Institute of Biotechnology, Czech Academy of Sciences

2020 - now

I am currently working in a bioinformatical laboratory. This way I am improving my programming skills and understanding of science and scientific research.

Projects

2020

I have created a tool to find nearest neighbours in a large data set of periodical data with the usage of KD-trees. It gave me the knowledge of advanced data structures and various Python tools.

2020

I learned how to design a complex data structure, which is easy to work with at the same time.

Skills

Programming: C#, Python, R, Bash, Pascal, Git, Linux, LaTex

Software: PyMol, Microsoft Office, Adobe Photoshop **Mathematics**: Linear Algebra, Algebra, Graph Theory

Languages

Czech: Native speaker

German: Studied in Germany for 6 years, graduated from German as native language

English: C1 level Russian: A1 level

Extracurricular activities

Main organizer of mathematics competition for middle schools	2018 - 2020
Organizer of mathematics competition for middle schools	2020 - now
Fall school of Mathematics and Physics	2019
Science week on Faculty of Nuclear Sciences and Physical Engineering	2016

Interests

Chemical graph theory, Networks, Mathematical strucutres, Molecular biology