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 languge 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 skillsand understanding of science and scientific research.

Projects

KD-tree for periodical data   Institute of Biotechnology   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.

Calculating dihedral angles in DNA molecules   Institute of Biotechnology   2020
I learned to know the CIF format and tried to design a complex data structure, which is easy to work with at the same time.

Skills

Programming languages: C#, Python, R, Bash, Pascal
Software: LaTex, PyMol, Microsoft Office, Adobe Photoshop

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 - now
Fall school of Mathematics and Physics   2019
Science week on Faculty of Nuclear Sciences and Physical Engineering   2016