

# Mykola Kolomiets

**Nationality:**Ukrainian **Date of birth:**20/03/2002 **Gender:** Male **Phone number:**(+380) 672570278

**Email address:** [nickkolomietsdooor@gmail.com](mailto:nickkolomietsdooor@gmail.com)

**Home:** Sechenova 6 (Dormitory) room 306/2, 01000 Kyiv (Ukraine)

## EDUCATION AND TRAINING

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### School

*Boarding school of the III degree* [ 01/09/2017 – 01/06/2020]

Math class

### bachelor degree

*Taras Shevchenko national university of Kyiv* [ 01/09/2020 – Current ]

**Website:** <http://www.univ.kiev.ua/en/>

**Field(s) of study:** Applied Math

**Faculty:** Computer Science and Cybernetics

**Department:** Computational Mathematics

## LANGUAGE SKILLS

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Mother tongue(s): **Ukrainian**

**Other language(s):**

**English**

LISTENING B2 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

## DIGITAL SKILLS

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- Python

I took a one-year course in Python at university. Then I used it to automate calculations in other subjects and create personal projects such as a telegram bot for providing certain statistics and a simple 2-D game on pygame. The most recent algorithms I implemented in Python were some clustering algorithms: k-means, fuzzy k-means (a variation of the previous one), and DBScan.

I have experience in using the most popular libraries: numpy, scipy, pandas, matplotlib, and some others. I took a course on Coursera on deep learning based on python and numpy. Passed a knowledge test on LinkedIn.

- Math

I have been studying for three years now, majoring in applied mathematics. I have studied various sections of mathematics, such as mathematical analysis (a large course with a continuation in the theory of functions of a complex variable), functional analysis, algebra, differential equations, control theory, computational geometry (with writing algorithms and visualization in Python and C++), discrete mathematics, mathematical logic and algorithm theory, probability theory, statistics, equations of mathematical physics

- C++

I took a half-year course in C++ at the university. The course was more based on the object-oriented paradigm, but all the examples and tasks were in C++. So, I'm rather superficially familiar with the language, although I've looked into some libraries like boost a couple of times.

- SQL

At university, I took a six-month course in SQL. During the course, I learned how to write queries of varying complexity, including very complicated ones. The course was based on Microsoft Access, although I later applied the knowledge I gained while working on a Python telegram bot, where I initially wanted to use SQLite, but later settled on MySQL.

- Git

I often used the git system in his projects. I prefer text commands to the GUI. I also once hosted a website on github.

- Deep Learning

I took a course on Coursera "The Deep Learning Specialization" from Deep Learning.AI and received a certificate in 2023. Then I played around with the acquired knowledge in Jupyter Notebook by creating and training several neural networks.