

# Kuznetsov Kirill

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📁 [github.com/bicikar](https://github.com/bicikar)

## Education

- 2019–2023 Saint-Petersburg State University, Mathematics and Computer Sciences department, Mathematics, Algorithms and Data Analysis, Bachelor's degree
- 2021–2022 Computer Science Center, Data Science
- Attended courses
- C++, Autumn 2020 - Spring 2021, SPBU
  - Data bases, Autumn 2021, CSC
  - Python, Autumn 2021, SPBU
  - Data analysis, Autumn 2021 - Spring 2022, CSC
  - Machine Learning, Autumn 2021 - Spring 2022, SPBU

## Projects

- Spring 2022 Protocol detection bot, Python, SPBU MCS,  
[https://github.com/bicikar/protocol\\_detection\\_bot](https://github.com/bicikar/protocol_detection_bot)
- Make OCR for recognizing tables, extract text from table boxes and recognize handwritten digits.
- Autumn 2022 Bounded suboptimal algorithms, Python, SPBU MCS,  
[https://github.com/bicikar/heuristic\\_search](https://github.com/bicikar/heuristic_search)
- Implementation of EES algorithm with different prioritet functions
- Autumn 2021 RRT\* algorithm project, Python, SPBU MCS,  
[https://github.com/bicikar/rrt\\_python](https://github.com/bicikar/rrt_python)
- Realization of RRT\* algoithm for path planning
  - Visualization of path planning
- Autumn 2020 MathDetector, Python, SPBU MCS,  
<https://github.com/ArChanDDD/MathDetector>
- Convert a pdf or hand-drawn image into Tex-code
  - Creation of datasets and image analysis

## Knowledge and skills

- Programming Python,  
C/C++,  
PostgreSQL
- Languages Russian - Native,  
English – Intermediate

## Other

- Sept. 2018– Apr. 2019 Subquandles of free quandles, educational practice, LCME (JHMO),  
<https://arxiv.org/abs/1904.06571>
- Proof of that a subquandle of a free quandle is free