Alexandr Fadeev

CONTACTS

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PROFILE

Individual with 3.5 years experiance in Planning component for self-driving vehicles.
Good knowledge of C++ programming language and classic algorithms and data structures.
Experiance with classic optimization.
Successful competitive programmer in past. Teacher and coach of various schools and bootcamps.
Currently working on AI for Navio self-driving car.

PROFESSIONAL EXPERIENCE

2022 - Present	**Navio (ex. SberAutoTech)** **Software engineer**
Speed planning for self-driving car:	Developed library of solvers for speed profile planning from ground up, using both discrete and continous optimization. Implemented features for speed planning solvers. Supported components «around» speed planning.
Self-driving car planning:	Developed features for geometry planning solvers. Optimized existing geometry planning algorithms.

2021 – 2022	**Yandex Self-Driving Group** **Software engineer**
Automatic remote requests for unwanted situations prevention	Developed and implemented unwanted situations detectors. Supported transition from «Watcher» to «Resolver-only» methodology of robots overseering.
Robot routing	Developed features and fixed bugs for adaptation of self-driving car routing system for robot purposes.

2022 - Present	**NUST MISIS** **Lecturer and seminarian**
Done:	5 semester-long courses on Algorithms and Data Structures and C++ programming language as a lecturer and/or a seminarian.

2019 − 2022   **ACM MISIS Coach**
                                             Teaching and administating

Done: Supervised several programming platform.
              Was a lecturer on several programming bootcamps.
              Was a informatics teacher assistant in school №179 in Moscow.

FORMAL EDUCATION

2023 − Present   **NUST MISIS Postgraduate**
                           Thesis topic: Speed planning for self-driving car

2020 − 2023   **NUST MISIS Master's degree**
                           Informatics and computer engineering

2016 − 2020   **NUST MISIS Bachelor's degree**
                           Applied mathematics

SUPPLEMENTARY EDUCATION

2017 − 2022   **ACM MISIS Student**
                           Competitive programming

Done: Solved algorithmic problems.
              Participated in one-man and three-man contests for 3 years.
              Took part in programming bootcamps.

Achieved: 4-times ICPC semifinalist, 3-times prize winner.
              Prize winner of various programming contests.
              Master rank on Codeforces programming platform.