

BOGDANOV NIKOLA

☎ +7(927)9067111 ✉ a@bogbbbb.co

EDUCATION

Higher School of Economics, Moscow	Sep 2019 - Expected Jun 2023
Bachelor in Applied Mathematics and Computer Science	GPA: 8.68/10.0

WORK EXPERIENCE

Software Engineering Intern Sibur	Sept 2020 - Dec 2020 Moscow, Russia
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- Improved path finding algorithm by implementing new rules and restrictions, which resulted in average commute time reduction by approximately 50%
- Researched the possibility of gRPC framework usage to transfer files larger than 500 MB

TECHNICAL SKILLS

Programming Languages	C++, Python, JavaScript, C#, Java
Technologies	JSON, REST, SQL, HTML, CSS, LaTeX
Tools	Git, GitHub, Visual Studio, PyCharm, Docker, Linux

PERSONAL PROJECTS

- [lksh-sport](#)
 - Implemented REST API for the sports site using Python and Flask, that processed approximately 200 teams and players registration requests
 - Developed a telegram bot using Python allowing the administrator to approve or decline the requests
- [Snake game](#)
 - Implemented a clone of the snake game in C++, using SDL2.0
- [RuzoomBot](#)
 - Developed a telegram bot using Python that sends notifications about upcoming classes to subscribed chats
- [Imaginarium \(Dixit\)](#)
 - Developed backend for the online version of a game Dixit using Python
 - Created the UI design using HTML5 and CSS3, deployed the project using Heroku
- [Flappy AI](#)
 - Created a clone of a flappy bird game using HTML5 and JS
 - Developed a self-playing mode using a single perceptron and a genetical algorithm to update the population

ACHIEVEMENTS

All Russian team programming Olympiad Finalist - 124th place of about 500	2018
All Russian Olympics Information Technologies Gold medalist - 17th place of about 1400	2018
All Russian project contest Great Challenges Winner - member of one of 12 winning teams out of more than 40,000 participants	2018
GSOM-Hack Hackathon Winner	2020

- Solved the given task as a Pickup and Delivery Problem with Time Windows using a genetic algorithm written in C++, showing results 3 times better than the next competitor
- As a result, the team was invited for the internship at Sibur