

BOGDANOV ALEXANDER

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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	Sep 2020 – Dec 2020
Sibur	Moscow, Russia
<ul style="list-style-type: none">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 MBAutomated the updating of the bus routes in the monitoring app by implementing a Java API interface	

TECHNICAL SKILLS

Programming Languages	C++, Python, Java
Technologies	JSON, REST, SQL, HTML, CSS, LaTeX
Tools	Git, 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

RuzoomBot

- Developed a telegram bot using **Python** that gets information from the university timetable API and 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

TheatreBooker

- Developed frontend for an app that allows to book tickets in the theater using **JS**, **HTML5** and **electron**
- Implemented **REST API** for the frontend to get booked seats, book new ones and cancel booking, using **Python**, **Flask** and **SQLite**

ACHIEVEMENTS

GSOM-Hack Hackathon	2020
Winner	
<ul style="list-style-type: none">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 competitorAs a result, the team was invited for the internship at Sibur	
All Russian team programming Olympiad	2018
Finalist - 124th place of about 500	
All Russian Olympics «Information Technologies»	2018
Gold medalist - 17th place of about 1400	
All Russian project contest «Great Challenges»	2018
Winner - member of one of 12 winning teams out of more than 40,000 participants	