

# Alexander Bogdanov

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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

- 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
- Automated 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**

[https://github.com/SphericalPotatoInVacuum/lksh\\_sport](https://github.com/SphericalPotatoInVacuum/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**

<https://github.com/SphericalPotatoInVacuum/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

- 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

**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