

# Alexander Bogdanov

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## EDUCATION

Higher School of Economics, Moscow

Bachelor in Applied Mathematics and Computer Science

Sep 2019 – Expected Jun 2023

GPA: 8.68/10.0

## TECHNICAL SKILLS

### Programming Languages

Production: C++, Python

Familiar with: C, JavaScript, Go, Java

### Technologies

Git, Docker, Linux, SQL

## WORK EXPERIENCE

### Software Engineering Intern

Jul 2021 – Oct 2021

Yandex

Moscow, Russia

- Wrote a **Python gRPC** client library to send requests to microservice management system, updated all relevant **unit tests** to use new client
- Refactored logging system by eliminating unnecessary inheritance and overcomplication, resulting in 1000 lines codebase size reduction and providing new abilities for enforcing thread safety
- Set up static code style checks for project with 50'000 lines of **C++** code

### Software Engineering Intern

Sep 2020 – Dec 2020

Sibur

Moscow, Russia

- Helped gather data from 1500 employees and prepare it for route finding algorithm using **pandas** and generated pdf timetables from the output using **Python**
- Researched possibility of using **gRPC** to transfer large files (up to 10GB)
- Developed [website](#) using **React.js** that aggregates all monitoring links from different cities
- Developed **Java** library for easier calls to **API** that enabled automated updates of bus routes and saved hundreds of man-hours
- Developed **Java** library for automation of calculations that were previously carried out in excel

## PERSONAL PROJECTS

### Iksh-sport

- Implemented **REST API** for sports website using **Python**, **Flask** and **sqlalchemy** that has processed multiple hundreds requests for user, team and event registrations and many more for events management. Has been used for 6 studying seasons and continues to work for this day.
- Developed telegram bot using **Python** for ease of approving or declining requests by administrator

### TheatreBooker

<https://github.com/SphericalPotatoInVacuum/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

- Solved task as Pickup and Delivery Problem with Time Windows using **genetic algorithm** written in **C++** showing results **3 times better** than next competitor
- Won the hackathon and was invited to the internship at Sibur with my team

### 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