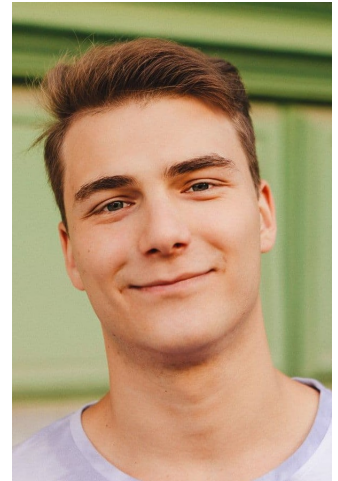


Puchkov Kyryll

+41 76 230 22 89 | puchkov.k@phystech.edu | Moscow, Russia | Oct 17, 2000 | github:puchkovki

Qualifications summary:

- Programming languages : Scala, Golang, C++, C, Python, SQL
- Development tools: Git, CMake, Make, Travis CI, Docker, Vagrant
- Distributed systems, multithreading, software engineering, automated testing, product delivery, design thinking, architecture strategy
- Skills: linear algebra, discrete mathematics, algorithms, computational maths, probability theory, optimisation
- Languages: English (fluent), German (pre-intermediate)



Education:

2017 — 2021	Moscow Institute of Physics and Technology (GPA: 4.87/5) Department of applied and theoretical informatics (Acronis company)	Bachelor degree Honours degree
2021 — now	Schaffhausen Institute of Technology	Master degree

Job experience:

2021 — now	«Tinkoff, SME» Junior Backend developer <ul style="list-style-type: none">• Support, scaling and reliability development of services for small and medium enterprises
2020 — 2021	«Acronis» Research intern <ul style="list-style-type: none">• Research on the garbage collection in bitmap-based search engines

Projects:

2021	Garbage collector in search engines, based on bitmap-indexes https://github.com/puchkovki/bachelor-thesis <ul style="list-style-type: none">• Developed an effective garbage collection algorithm, tested and compared with other algorithms• Backend is written fully in Golang
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2021 | **Model of a distributed system**

<https://github.com/puchkovki/distr-model>

- Implementation of an infrastructure that allows to create models of distributed processes
- Requirements:
 1. Modeling of distributed processes that exchange messages
 2. Simulation of synchronous and asynchronous operation mode
 3. Simulation of message loss
- Backend is written fully in Golang

2020 | **Telegram bot for the campus domestic issues**

https://github.com/kichyr/domestic_issues

- This bot should simplify the applications' filling process for the domestic issues in the MIPT campus
- Backend is written fully in Python, using the Google Tables. Frontend is using JavaScript to interact with users.

2019 | **Website for programming contests (Judex)**

<https://github.com/trmigor/Judex>

- Judex is a system for automatic testing for student contests
- Backend is written fully in Golang, using the standard libraries and MongoDB Server. Frontend is using JavaScript to interact with users

2018 | **Command-line interpreter (Microshell)**

<https://github.com/puchkovki/Microsha>

- Microshell provides most of commands, contained in bash
- Syntax is the same as in other implementations of UNIX shell, with regular expressions, pipes, input-output redirection and standard notation available. Microshell interacts with operating system by a set of UNIX system calls and supports signals and multiprocessing.
- Backend is written fully in C++