Puchkov Kyryll

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Qualifications summary:

- Programming languages : Golang, C++, C, Scala, Python, SQL;
- Development tools: Git, CMake, Make, Travis CI, Hunter, Docker, Vagrant
- Algorithms, multithreaded programming, distributed systems, automated testing;
- 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	Moscow Institute of Physics and Technology Department of financial technology in business (Tinkoff company)	Master degree
2021 — now	Schaffhausen Institute of Technology	Master degree

Job experience:

2021 — now | **«Tinkoff, SME»**
Junior Backend developer

- Support and development of services for small and medium businesses

2020 — 2021 | **«Acronis»**
Research intern

- 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

- Thesis at the Department of applied and theoretical informatics, MIPT
- Developed an effective garbage collection algorithm, tested and compared with other algorithms
- Backend is written fully in Golang

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++