Puchkov Kyryll

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CAREER OBJECTIVE: To get a position where I will be able to obtain and utilize my experience, develop my technical and social skills.

QUALIFICATIONS SUMMARY:

- Have 4 years' experience in organizational activities: Olympiad Fiztech, Winter Olympiad School actions, Start v nauku, MIPT Open doors day;
- Have 3 years' experience as text editor and designer in Vkontakte groups: Profkom MIPT, DCAM MIPT, Phystech Tour, MIPT Sport Club;
- Have experience in Photoshop, SolidWorks, Illustrator, SQL Server (basic skills);
- Have experience of programming on C/C++, Golang;
- Have experience of writing of research works on physics, mathematics, economy, psychology;
- Have good analytical/problem-solving skills, self-initiative and fast to learn new skills/technologies;
- Able to communicate in Russian (native), Ukrainian (native), English (intermediate) and German (pre-intermediate);
- Well-organized, self confidence, able to keep deadlines successfully, possess proactive approach, quality-oriented and enjoy learning new things.

EMPLOYMENT HISTORY:

2018 — 2019 | **«Winter Olympiad School, MIPT»**
Assistant // Moscow, Russia

- events' organization, mentoring and checking students tasks

2018 — 2019 | **«International Conference Start v nauku, MIPT»**
Assistant // Moscow, Russia

- events' organization, mentoring and checking students tasks

2017 — now | **«Profkom MIPT, MIPT»**
Text editor and designer // Moscow, Russia

- reporting of institute news, designing

2017 — now | **«Phystech Tour, MIPT»**
Co-lead // Moscow, Russia

- organization travel tours for MIPT students

2019 — now | **«International office, MIPT»**
Text editor // Moscow, Russia

- reporting of institute news, website maintenance

EDUCATION:

2015 — 2017	The Richelieu Lyceum	Advanced mathematics and physics	The silver medal
2017 — now	Moscow Institute of Physics and Technology	Applied mathematics and physics	Bachelor degree
2019 — now	Department of applied and theoretical informatics (Acronis company)	Applied and theoretical informatics	Diploma examination

PROJECTS:

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

- 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.

2019 **Website for programming contests (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
- Project is using multithreading with goroutines for faster results. System calls are used to manage time and memory used for test runs in isolated environment in order to keep system safe.

2020 **Telegram bot for the campus domestic issues (Domestic bot)**

- 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.

2020 **Multi-threaded list**

- Stack is implemented with two-way adding methods $push\_front()$ and $push\_back()$ and front deleting $pop\_front()$. Due to the $Iterator$ definition we could make range based loop for our list or output it with output function. To check ABA problem was implemented swap methods with sleep and yield realisations $swapSleep$ and $swapYield$ respectively. Deleting is implemented with $Hazardpointers$
- Project is fully written in C++

2020 **OpenMPI and OpenMP**

- During the course of Distributed systems had been made several tasks: integration using trapezoidal rule (on OpenMPI and OpenMP), solution of the heat equation (on OpenMPI and OpenMP) and bignum arithmetic (on OpenMPI)
- Project is written on C and C++