+7 (921) 323-31-27
Saint-Petersburg, Russia

Anton Paramonov
Computer Science researcher

anton.paramonov2000@gmail.com
github.com/werty144

I am interested in a research work in the field of computer science and participating in programming projects.

Skills

Programming languages	Python, Kotlin, C++, C sharp
Tools	Git, LaTeX, Wolfram Alpha
Communication	English, Russian

Technical Experience

Researcher / Dynamic graph embeddings   01.07.2021 — Present
ITMO University   *Saint-Petersburg*

In this project I investigated the problem of dynamically updating an embedding of the so called guest graph into the host graph with a goal of minimizing given objective function.
Related topics:

- Self-adjusting networks
- Minimum Linear Arrangement
- Bandwidth

Researcher / Static graph embeddings   01.02.2022 — Present
JetBrains Research   *Saint-Petersburg*

In this project I investigated the problem of finding in the restricted class the best host graph to embed the given guest graph minimizing the objective function.
Related topics:

- Self-adjusting networks
- Quadratic assignment problem

Researcher / Online algorithms   01.09.2021 — 31.12.2021
Technical University   *Berlin*

In this project I investigated the problem of designing an online algorithm for serving the request on a graph of a known topology.
Related topics

- Self-adjusting networks
- Online algorithms
- List update problem

Researcher / Quantum computing   01.02.2021 — 01.06.2021
Saint-Petersburg State University   *Saint-Petersburg*

In this project I examined the difference between circuit and adiabatic quantum computers implementing algorithms and measuring performance of real machines from IBM and DWave companies.
Related topics

- Ising model
- Distribution similarity

C++ Developer / Routing   01.09.2021 — 31.12.2021
VeeRoute   *Saint-Petersburg*

In this project I worked as a C++ junior developer implementing a solver for the routing problem. After the implementation I measured metrics on a set of benchmarks to prof the performance of the resulting solver.
Related topics

- Assignment problem
- Vehicle routing problem

Android Developer / Mobile game   01.06.2021 — 01.09.2021
Personal project   *Saint-Petersburg*

In this project I developed an Android Game and submitted it to the Play Market. Game.

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EDUCATION

Bachelor of Mathematics and Computer Science, *Saint-Petersburg State University*   01.09.2018 — 01.06.2022

ACTIVITIES

Summer school on theoretical informatics and computational complexity   Summer 2021
Online multiplayer 3D game   Ongoing