Software Engineer

**Vladimir Slutskii**

maalutskiy@gmail.com *|* linkedin.com/in/aalutskii *|* Munich, Germany

# Summary



Backend Software Engineer with 2.5+ YoE in software development with experience in research.

# Technical Skills



**Languages**: C++ (stl, OpenMP), Python, Matlab

**Developer Tools**: Git, Linux

# Experience



**Software Engineer (R&D)** 11/2020 - 05/2021

Align Technology *·* [link](https://www.aligntech.com/) *·* the largest manufacturer of 3D digital solutions in orthodontics.

* Proposed and implemented features included in a launch of a new orthodontic product;
* Increased rate of successful orthodontic treatment by 4% by improving geometric algorithms;
* Consulted a team of 3 bio-mechanics on optimization problems;
* Conducted code review and provided unit testing for legacy code to maintain code quality; Had to resign because of relocation to Germany.

**Research engineer** 08/2018 - 06/2020

Landau Institute for Theoretical Physics *·* [link](https://www.itp.ac.ru/en/)

* Implemented numerical simulations for various models of quantum physics;
* Co-authored an article about quantum algorithms.

**Research engineer** 02/2018 - 06/2018

Higher School of Economics *·* [link](https://miem.hse.ru/edu/pm/matmodel/about)

* Optimized algorithms for simulating physical processes on large space and created a multi-thread program for corresponding computations;
* Publicized an article on the related theme.

# Education



**Higher School of Economics** *·* [link](https://www.hse.ru/en/ma/supmod/) ***MSc, Computer Science***

*QS World University Rankings: top 100 in Mathematics, top 200 in Computer Science 2018 - 2020*

**Higher School of Economics** *·* [link](https://www.hse.ru/en/ba/am/) ***BSc, Applied Mathematics***

*Key courses: algorithms, C++, numerical methods, parallel programming 2014 - 2018*

# Publications



**Slutskii, Mikhail**, et al. ”Analog nature of quantum adiabatic unstructured search.” New Journal of Physics 21.11 (2019): 113025.

**Slutskii, M. G.**, L. Yu Barash, and Yu Yu Tarasevich. ”Percolation and jamming of random sequential adsorption samples of large linear k-mers on a square lattice.” Physical Review E 98.6 (2018): 062130;