

LAVRIN OLEG IGOREVICH

Moscow, Russian Federation

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EDUCATION

MIPT DGAP

bachelor of science (Quantum Computing and Simulation)

09 2018 – 08 2022

Moscow, Russia

MIPT DCAM

master of science (Optimal Control, Optimisation and Operations Research)

09 2022 – 08 2024

Moscow, Russia

COURSEWORK / SKILLS

- Financial Math & Stochastic Processes
- Tensor Networks
- Traffic Simulation
- Convex Analysis & Optimization
- Discrete Optimization
- Game Theory
- Operations Research
- Differential Geometry
- Non-convex optimization
- Variational Inequalities
- Micro & Behaviour Economics
- Econometrics

TECHNICAL SKILLS

Languages: Python

Developer Tools: JAX, OR-Tools, CPLEX, CVXPY, TTPy

Technologies: D-wave, IBM experience, OpenStack

WORK EXPERIENCE

Terra Quantum [↗](#)

Software Developer

07 2019 – 11 2021

Moscow, Russia

- software for experiment analysis & optimisation
- software for simulation and LDE solving

Huawei Russian Research Institute [↗](#)

Cloud Engineer

08 2022 – 06 2023

Moscow, Russia

- mathematical models for robust problems
- heuristics development and realization

Eventum AI [↗](#)

QR assistant

07 2023 – 10 2023

California, USA

- strategy work with quant trading

PROJECTS

Quantum Inspired Optimisation | Python, AMEn, CrossOpt, GRAPE

2019 - 2021

- developed a GRAPE [↗](#) based framework for quantum gate synthesis (python)
- developed tensor based combinatory optimisation algorithms
- developed maximum approximation algorithm for pure states

Cloud Consolidation | Python, OR-tools, OpenStack

2022 - 2023

- modified migration heuristics for higher dimensions
- developed few approaches for multidim robust binpacking

COMPETITIONS AND WORKSHOPS

Hackaton "Transport and Logistic" [↗](#)

quantum QUBO solvers for industry

23-24 10 2021

Moscow

- formulated QUBO and solved them on quantum devices. [↗](#)
- winner certificate. [↗](#)

All-Russian Olympiad of Students "I am a professional" [↗](#)

mathematics

31 05 2022

Moscow

- winner certificate. [↗](#)