

# 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 – 05 2023

*Moscow, Russia*

- mathematical models for robust problems
- heuristics development and realization

### Eventum AI [↗](#)

*QR assistant*

06 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. [↗](#)