LAVRIN OLEG IGOREVICH

Moscow, Russian Federation

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EDUCATION

MIPT DGAP   **09 2018 – 08 2022**
bachelor of science (Quantum Computing and Simulation)   *Moscow, Russia*

MIPT DCAM   **09 2022 – 08 2024**
master of science (Game Theory and Decision-Making Analysis)   *Moscow, Russia*

COURSEWORK / SKILLS

- Financial Math & Stochastic Processes
- Tensor Networks
- Traffic Simulation
- Convex Analysis & Optimization
- Discrete Optimization
- Game Theory
- Social Choice
- 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 EXPERIANCE

Terra Quantum ⬈   **07 2019 – 11 2021**
Software Developer   *Moscow, Russia*

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

Huawei Russian Research Institute ⬈   **08 2022 – 06 2023**
Cloud Engineer   *Moscow, Russia*

- mathematical models for robust problems
- heuristics development and realization

Eventum AI ⬈   **07 2023 – 10 2023**
QR assistant   *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" ⬈   **23-24 10 2021**
quantum QUBO solvers for industry   *Moscow*

- formulated QUBO and solved them on quantum devices. ⬈
- winner certificate. ⬈

All-Russian Olympiad of Students "I am a professional" ⬈   **31 05 2022**
mathematics   *Moscow*

- winner certificate. ⬈