

GESER DUGAROV, Ph.D. | Software Engineer, ML Engineer

email: geserdugarov@gmail.com
languages: English (advanced), Russian (native)
profiles: [LinkedIn](#), [GitHub](#)

SUMMARY

Software Engineer on Data Science projects in computer vision startup. The last year mainly focused on project of trucks monitoring by number plates recognition. Made to production, which reduced trucks downtime by 12%, and currently working on decreasing missed recognitions from a stream of ~20k frames per day.

Wide experience in research and data analysis (13 yrs, PhD). Made a transition from fundamental research in Oil & Gas to research and development in IT due to my passion to create products that people use.

TECHNICAL SKILLS

Python, SQL, Docker, Apache Kafka, Linux, Git

WORK EXPERIENCE

Feb 2022 - **Software Engineer**,
current (1 yr) **Digital Research** (computer vision startup)

- Integrated monitoring system in the construction industry, which streaming ~20k frames per day and reduced trucks downtime by 12%. Searched for suitable open-source solutions for number plate recognition, designed system with event based architecture, and developed server side processing from frames receiving to sending messages about truck passing.
- Acceleration program for a project of forest scanning by unmanned aerial vehicles: individual tree detection and species identification. Finished proof of concept on 40 km² and 600k trees. Analyzed market, and presented project to foundations and potential customers.

2009 – 2022 Research Assistant >> Research Associate >> **Senior Researcher** (since 2019),
(13 yrs) **Trofimuk Institute of Petroleum Geology and Geophysics**

- Transferred new technology of fractures parameters estimation from fundamental research to business (NIS-Naftagas, Serbia). Lead the project: requirements specification for tough combination of research part and software development dependent from research results, project status meetings (40 presentations), and project stages delivery (4 reports and project defenses).
- 5 years in a row of personal projects supported by main foundations (2017-2021), laboratory budget for these 5 years have been increased by 18%.
- 4 graduate students: 3 MSc (2022*2, 2020), 1 BSc (2020).
- "The best young researcher in Earth science organizations" award (2019).

EDUCATION

2013 **PhD, Geophysics**,
Trofimuk Institute of Petroleum Geology and Geophysics SB RAS

2009 **MSc, Computational and Applied Mathematics**,
Novosibirsk State University

CERTIFICATES

- Deep Learning Specialization, Coursera (2021).
- Machine Learning, Coursera (2021).