

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

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languages: English (advanced), Russian (native)  
profiles: [LinkedIn](#), [GitHub](#)

### SUMMARY

Software Engineer on Data Science projects in a computer vision startup. The last year mainly focused on a 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***

### 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%. Designed system with event based architecture (with *Apache Kafka*), and developed server side processing of received frames.
- Data analysis system (sources: *PostgreSQL* with logs, *S3 storage* with images) with web access to business reports for customers and internal metrics monitoring for data analysts (*Streamlit* for visualization).
- Acceleration program for a project of forest scanning by unmanned aerial vehicles: individual tree detection and species identification. Finished proof of concept on 40 km<sup>2</sup> 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).

## HOBBIES

- Going to the gym on a regular basis (since 2019).
- Reading developmental psychology and business management books.

[Recent version of CV](#)