

# GESER DUGAROV, Ph.D. | Software Engineer, Big Data Engineer

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profiles: [LinkedIn](#), [GitHub](#)

## SUMMARY

Software Engineer developing core functionality in a Data Lakehouse platform to extract value from PB-scale data. Also [contributing](#) to the open-source Apache Hudi project, with a focus on performance and solution usability. Extensive experience in research and data analysis; PhD. Strong interest in Big Data and Distributed Systems. Personal mission: "Living a balanced life. Helping professionals to work smarter, not harder, by creating automated systems for their routine."

## TECHNICAL SKILLS

**Java, Python, Maven, PostgreSQL, Docker, Hadoop Ecosystem**

## WORK EXPERIENCE

May 23 – Current    **Software Engineer / Big Data Engineer,**  
(2+ yrs)                [Huawei Cloud](#)

- Development of core functionality of a Data Lakehouse platform for Big Data processing on enterprise-level scalable clusters.
- Future Star Award (2024).

Jan 24 – Current    **Apache Hudi Contributor,**  
(1.5+ yrs)            [The Apache Software Foundation](#)

[Apache Hudi](#) is a Data Lakehouse platform that brings database functionality to data lakes and enables incremental processing for low-latency analytics.

- Optimized serialization and deserialization of data stream records in Apache Flink stream writing, resulting in a 30% increase in processing speed and 2x reduction in memory usage ([design doc](#), [main changes](#), [umbrella ticket](#)). Released in [Hudi 1.0.2](#).
- Implemented 4 local optimizations ([\[1\]](#), [\[2\]](#), [\[3\]](#), [\[4\]](#)) in Flink stream writing, resulting in a 10% increase in processing speed and 30% reduction in garbage collection overhead. Released in [Hudi 1.0.1](#).
- Contributed 40+ [merged pull requests](#).

Feb 22 - May 23    **Software Engineer / ML Engineer,**  
(1+ yr)              [Digital Research](#) (computer vision startup)

- Designed and implemented an event-based architecture for a system for trucks monitoring. Developed server-side image processing handling ~20,000 images per day. In production, the system reduced fleet idle time by 12%.
- Built a customer-facing web UI featuring reports and data visualizations. Also developed an internal web UI for system monitoring.

## EDUCATION

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

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

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