

# Aleksandr Salatich

Senior Software Engineer

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## Personal details

Marital status Married

Citizenship Russia

## About

Big Data Engineer with 4 years of relevant experience. Can study new technologies in a short period of time. Have advanced level of problem solving skills with extremely positive feedback from my colleagues. AWS Certified developer. Have researcher's degree in Physics and publications in international journals.

## Work experience and projects

2021-present **Lead developer**

EPAM Systems

Project: Enterprise data and analytics platform "ForeSight". Recognized by The FutureEdge 50 Award

- Launched new project as a Lead developer to build Financial Data Marts and visualize the data
- Provided different PoC's to optimize the technology stack (for ex. implementation Hyper API for Tableau extracts / use AWS Aurora to visualize data for mobile applications / use Splain for data processing visualization)
- Implemented a library to generate Hyper Tableau extracts from parquet files to speed up extract time by 500%
- Migrated pipelines from Glue 2.0 to Glue 3.0 (Spark 2.4.3 to Spark 3.1.1)
- Optimized current jobs from time/costs perspective by analyzing the execution plans (reduce costs up to 50%)
- Formulated quality gates to generalize data products across platform and took a part in introduction of SonarQube (together with DevOps team)

Stack: AWS Cloud, Spark, Scala, Python, Tableau API

2018-2021 **Software Engineer**

EPAM Systems

Project: Enterprise data and analytics platform "ForeSight". Recognized by The FutureEdge 50 Award

- Implemented different pipelines from scratch to ingest data from different sources to Data Lake in AWS
- Reduced time/costs of Glue jobs which use JDBC connection in Spark 2.2 by 50%
- Migrated pipelines from Glue 0.9 to Glue 2.0 (Spark 2.2 to Spark 2.4.3)
- Took a part in implementation of common library (across whole platform) to make it reusable and speed up the development process

Stack: AWS Cloud, Spark, Scala, Python

- 2017-2018 **Java Developer**  
Rostelecom Contact-Center  
Project: Software for communication with customers through digital channels (Live Chat Software)  
• Successfully integrated external AI solution to reduce operators workload and costs  
• Improved CI/CD process to reduce delivery time by 100%  
Stack: Java, Spring Framework, WebSocket
- 2017 **Full Stack Developer**  
JSC Bank "PSCB"  
Project: E-commerce platform / Internet acquiring  
• Successfully implemented an integration (via REST) with external systems to receive electronic receipts  
Stack: Groovy

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## Skills

**Programming languages:** Scala, Java, Python

**Frameworks & Technologies:** AWS Cloud, Spark, Hadoop Ecosystem

**Industry Knowledge:** Problem Solving, Agile, Scrum, Kanban

**Virtualization:** Docker, Oracle VM VirtualBox

**Mathematical software:** Maple, SymPy

**OS:** Linux, Microsoft Windows

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## Licenses & certifications



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## Education

- 2016-2020 **Research degree, Information technology and numerical methods**  
*Physics Faculty, Department of Computational Physics, St.Petersburg State University, Russia*  
Research Thesis in June 2020 (grade 5 of 5): Analytical and numerical study of confluent Heun functions (written in Russian)
- 2014-2016 **Master in Applied Mathematics and Physics**  
*Physics Faculty, Department of Computational Physics, St.Petersburg State University, Russia*  
Master Thesis in June 2016 (grade 5 of 5): Development of Distolym software subsystems (written in Russian)
- 2010-2014 **Bachelor in Applied Mathematics and Physics**  
*Physics Faculty, Department of Theoretical Physics, Omsk State University, Russia*  
Bachelor Thesis in July 2014 (grade 5 of 5): Simulation of dynamic phase transitions in Ising-like systems under a time-dependent oscillating external field (written in Russian)

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## Additional Information

### Conferences and publications

- 2020 **First-Order Ode Systems Generating Confluent Heun Equations**  
Journal of Mathematical Sciences
- 2019 **Antiquantization of the Double Confluent Heun Equation. The Teukolsky Equation**  
Russian Journal of Nonlinear Dynamics

- 2018 **Confluent Heun equation and equivalent first-order systems**  
Polynomial Computer Algebra 2018  
<https://pca-pdmi.ru/2018/files/21/pca18n.pdf>
- 2017 **Confluent Heun equation and confluent hypergeometric equation**  
Zap. Nauchn. Sem. POMI  
<https://link.springer.com/article/10.1007/s10958-018-3865-2>
- 2015 **A Distribution Model for Fuels Production and Consumption in the World**  
International Student Conference, Science and Progress, St.Petersburg, Peterhof
- 2015 **Distolymp multi-platform program complex for testing knowledge and practical skills**  
*Modern Information Technology. Theory and practice*  
Proceedings of the 2nd All-Russian Research-to-Practice Conference, Cherepovets